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The
CHEMIST AND DRUGGIST

RETAILER — WHOLESALER — MANUFACTURER

SEPTEMBER 3, 1949



Haliborange

TRADE MARK

A VITAMIN TONIC
FOR
CHILDREN & ADULTS

ALLEN & HANBURY LTD · LONDON · E 2

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For coughs following "colds"

'BENYLIN' *Expectorant*

*In 4, 16 and 80 fl. oz.
bottles.*



The ability of 'Benadryl' to relieve the cough and other distressing symptoms associated with the "common cold" represents still another clinical application of this remarkably versatile drug. The value of 'Benadryl' in controlling these symptoms is connected with its antispasmodic and bronchodilator properties.

In 'Benylin' Expectorant, 'Benadryl' is combined with proved expectorants in a raspberry-flavoured syrup, which is readily acceptable to both children and adults.

'Benylin' Expectorant not only relieves coughs, but is also effective in alleviating nasal stuffiness, sneezing, lachrymation and bronchial congestion.

Each fluid ounce contains:

'Benadryl'	80 mgm.
Ammonium chloride	12 grs.
Sodium citrate	5 grs.
Chloroform	2 grs.
Menthol	1/10 gr.

Dosage: Adults: 1-2 teaspoonfuls. Children: ½-1 teaspoonful.

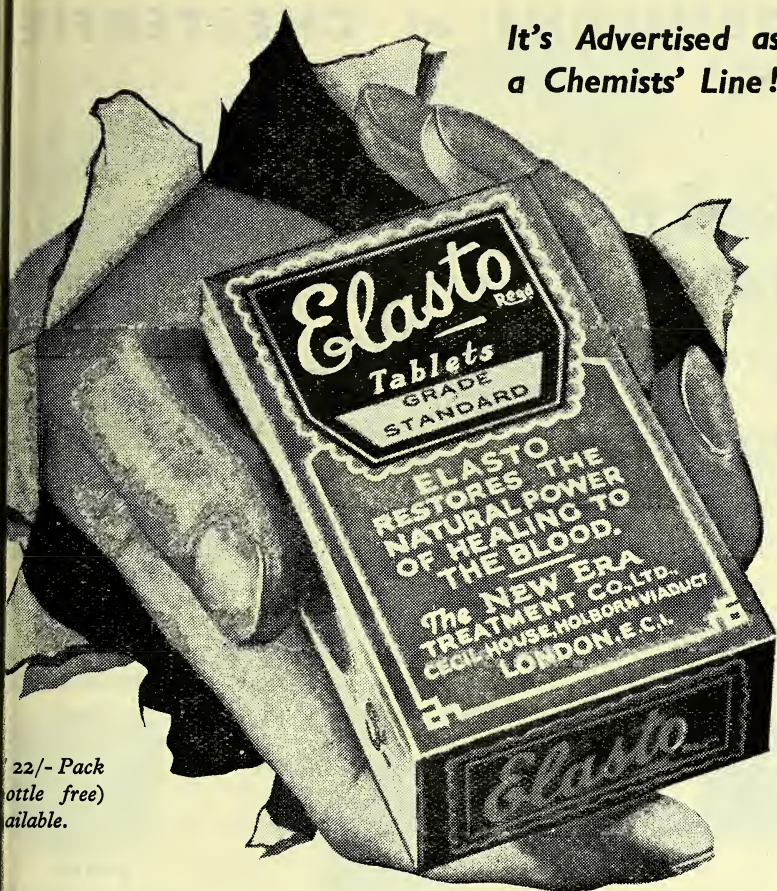
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H O U N S L O W , M I D D L E S E X

Telephone: Hounslow 2361 (11 lines).

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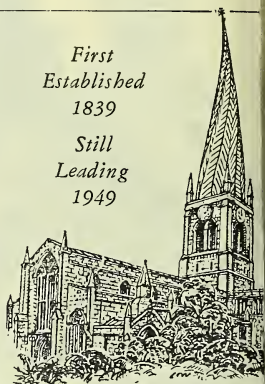
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1839*

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1949*



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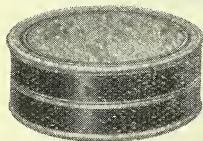
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(G.P.O.)

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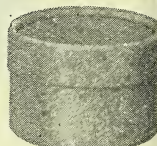
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BONUS Terms for Crookes Halibut Oil and the 'STRONGER' Crookes Halibut Oil Capsules were mailed to all retail chemists on the 1st September. A selection of 8 attractive window and counter displays are available. Full details upon request.

WHAT IS MEANT BY MARKETING DISTRIBUTION

Excerpt from an address given by Mr. Walter R. Crowe before a Sales Conference of Walter Crowe Limited, held at Savoy Hotel, London.

"PART of our stock in trade as distributors is what the Americans call 'know how'. Behind a highly geared selling organization is experience at top level of the problems of manufacturing, of packaging, of display and of advertising.

We work closely with the manufacturer in framing sales approach, merchandising, advertising, and indeed, the whole balanced marketing effort. He knows the basis of our sales forecasts and generally follows the job in all aspects just as he would if we were all members of a single organization. We become to all intents and purposes, a partner in the manufacturer's business and he in ours. He has the equivalent of a sales directorate in the persons of myself and my associates to advise upon marketing policy, costing, packaging, pricing, display and so on.

Having been myself the Managing Director of a proprietary manufacturing organization which can claim more than usual success, and on the boards of others, the overall view of a business with its interrelated sectional costs, all influenced so greatly by volume of turnover, is a familiar scene to me. The Managing Director's many-sided problems are not by any means new, for his language is very much my own. One of the advantages of such an association is that the function of a good sounding board is provided for his own views on development. Often, I am able to throw back fresh or supplementary ideas that befit his business--some with far-reaching benefit. This is not because we are 'clever' but simply because we are not overweighted with

other pressing problems of a marketing business; we are free to constantly of the marketing aspect.

That is a conception of distribution which distinguishes us from the conventional distributor. For that reason we describe ourselves as 'Marketing tributors'. It means among other things a lot of ground has to be covered and a lot of probing has to be done before we reach the stage of briefing the salesmen who contact the retailers in the field. It involves examination of appropriate market conditions, price and discount fixing, competitive activities, weaknesses in competitive policy, seasonality, merchandising and consumer advertising, for that some of these is the cause of arrested distribution. My seventeen years in leading American and English advertising agencies enable me to deal with the manufacturer as an advertising agent on the basis of co-operative partnership for again, their situation of operation and their problems are familiar country to me. In short, all aspects of a manufacturer's marketing are very much our concern. Indeed the 'guts' of our service is to help shape the plan and then carry it out within the frame of distribution."

★ ★ ★ ★

Walter Crowe Ltd. is in a position to undertake the distribution of non-competitive lines possessing sales potentiality but which require intensive marketing and distribution to realise the fuller sales they could enjoy. Enquiries should be addressed to Mr. W. R. Crowe, Governing Director, Walter Crowe Ltd., 3/4 Little Russell Street, London, W.C.1.

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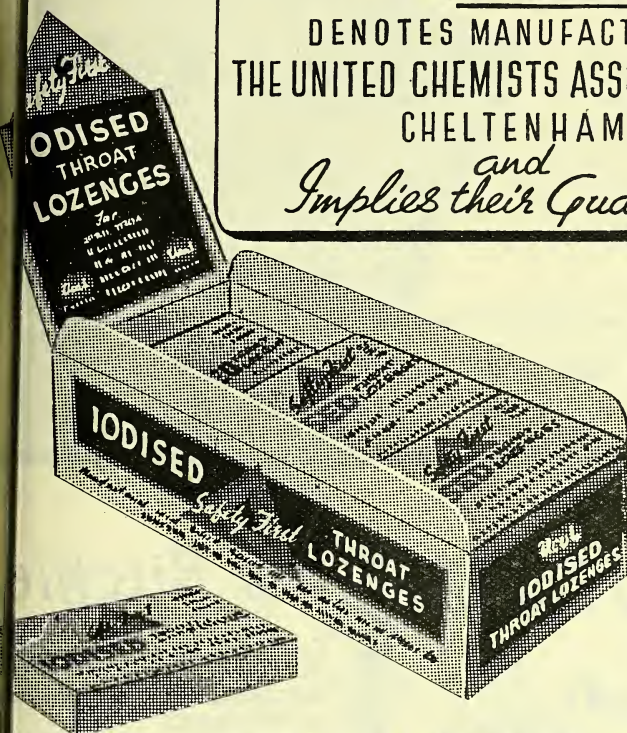
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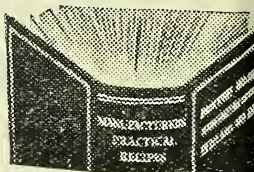
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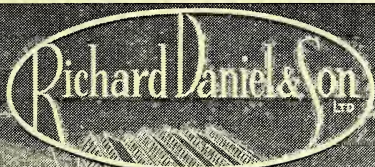
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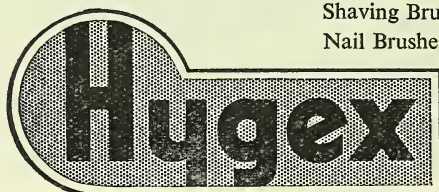
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An apology
BY KNOX LABORATORIES LIMITED
FOR THE
delay in supplies
OF
Cystex & Mendaco

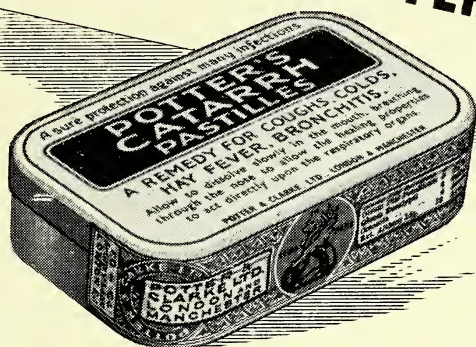
We tender our most sincere apologies to all our wholesale and retail chemist friends who have been kept waiting for supplies of these products.

The reason for the delay in the execution of orders was the sudden, unprecedented demand for Cystex and Mendaco, which took the factory staff unawares at a time when there were also seasonal difficulties due to annual holidays, etc. However, we are pleased to say that steps have now been taken towards remedying this unfortunate position, and, from now on, supplies will rapidly improve.

We take this opportunity of thanking everyone in the trade for their patience and forbearance during a difficult time.

KNOX LABORATORIES LIMITED
29 Duke Street, St. James', London, S.W.1

Now 1'9.
with **NEW BONUS OFFER**



POTTER & CLARKE LTD., announce to the trade that as from September 1st., the price of their CATARRH PASTILLES is increased to 1/9 per tin including purchase tax. (*Wholesale: 11/- per dozen plus 3/8 purchase tax.*) This increase has been approved by The Central Price Regulation Committee and the Proprietary Articles Trade Association.

★ **NEW BONUS OFFER.** Orders for quantities of 6 dozen will receive a discount of 5% and orders for 12 dozen 7½% in return for a window display.



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IN BOXES OF			RETAIL PRICES
2 × 1 C.C. AMPOULES	13/6 PER BOX
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25 × 1 C.C. AMPOULES	152/6 PER BOX
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OF 25 MILES

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jar you sell!
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including
purchase tax

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which also stops perspiration

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HAIR EMULSION

... a new effective treatment for head lice.

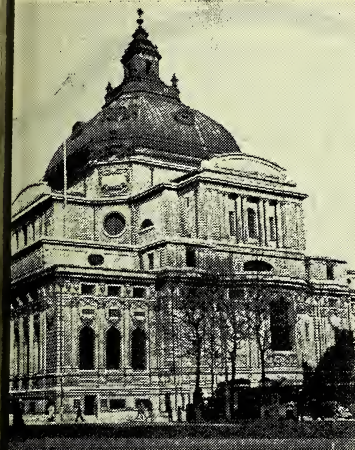
A new formula Emulsion, containing D.D.T. as the active ingredient, for control of head lice. Pleasantly perfumed and simple to use. Apply by massaging the scalp. No comb required except for the removal of dead lice. Treatment is economic and individual application is recommended.

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*As an Antacid
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"FEMININE SYRINGE"

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This offer is for 30 days from September 3rd., and is strictly in consideration of a 30-day counter and/or window display—reckoned from the day of delivery of your order. Here are the full details:—

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½ doz. Children's Musterole.
- ★ 24 jars are delivered, but you only pay for 21!
- ★ 3 JARS OF MUSTEROLE ABSOLUTELY FREE!

Send your order **NOW**

	CHEMIST	PURCHASE TAX	PUBLIC	PROFIT	CREDIT FOR DISPLAY	TO PROFIT
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(Equivalent to three Children's pots FREE in 24)

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In pursuance of their policy of
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Saville

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PERFUME

List No.	Doz. Rate	Tax inc. Retail Price
800	14/6	3/-
801	36/-	7/6
802	60/-	12/6
803	100/10	21/-

In addition to the general Saville perfume advertising now appearing, an entirely separate campaign will be devoted exclusively to Seventh Heaven.

Feature this perfume to benefit from the demand which will be stimulated by INCREASED publicity and DECREASED prices.

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WATFORD · HERTS.

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STERILE
CORD POWDER

CONSPERSUS ALUMINIS et ZINCI pro INFANTIBUS N.F.

Packets of 6 envelopes of sterile powder wrapped in moisture-proof film

TRADE PRICE: 24/- per doz. Tax Free

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Retail Prices:	PUMP ALONE	36/6
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RIDDOBRON TABLETS 20's @ 5/-
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Persomnia tablets, a combination of two *open-chain* ureides—bromisovalerylurea and carbromal—have been proved by long clinical practice to be as effective as barbiturates in practically all cases in which a sedative or mild hypnotic is indicated. The preparation discloses a marked synergistic enhancement of effect when compared with the therapeutic action of the two component drugs employed *separately*.

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- Not a barbiturate
- No bromism
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- Well tolerated even by children
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- No contra-indications are known

Free clinical samples and literature will be gladly sent on request

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Medical Brochures describing this preparation in detail will be gladly sent to Ms.P.S. on application to:

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Manufacturing Chemists
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Less 5% Cash in 14 days

Vitamin B₁ 2.10 mgms. per oz.

Riboflavin (B₂) 1.45 mgms. per oz.

Niacin 9.50 mgms. per oz.

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All types of Punches and Dies refaced and reconditioned, including Multiple and Special Shapes. Single Sets by return.

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Indispensable to the rural pharmacist. Profitable to the town pharmacist. 15/- postage 6d.

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*The Symbol of
PERFECT Skin Health*

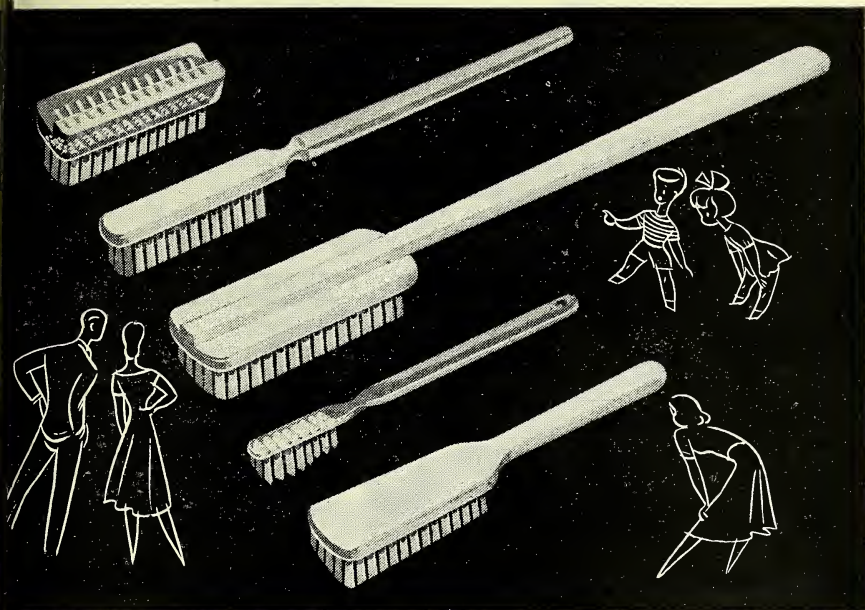
A revolutionary product for the treatment of skin illnesses with unusual penetrative power. Sold under a money-back guarantee of satisfaction. Liquid and cream. Prompt deliveries.

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BC 20

Nylon is unique



FOR ALL

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Only nylon with its scientifically graded diameters produces the correctly textured toothbrush to suit all dental conditions.

These supple monofilaments repel dirt, do not split or become soggy and, above all, remain hygienic throughout an exceptionally long life.

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WE NOW PACK IN DRUMS

PULV. MAGNESII TRISILICATIS CO.

4 oz. 9/- Doz. . . . 8 oz. 17/- Doz.

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PULV. KAOLINI CO.

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N.F. 1949

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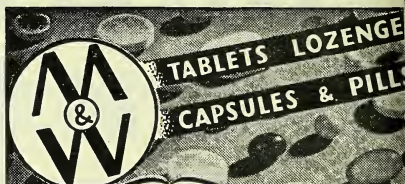
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of Silver Picrate
N.F., and Tablets
of Digoxin 0.25
mgm. N.F., now
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'Tineafax' brand Ointment is intended for the treatment of established infection; 'Tineafax' brand Powder as an adjunct to the Ointment and for prophylactic use. Both products are clean and pleasant to use, non-staining and free from objectionable odour. The Ointment is issued in collapsible tubes of 1 oz. (approx.); the Powder in tins of 2 oz. Separate display outers available.

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Each product retails at 2s. 6d. plus 7½d. Purchase Tax 

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MALE HORMONE

ORAL . . . tablets of Methyltestosterone B.P. of 5-10-25 or 50 mg.

INJECTION . . . ampoules Testosterone Propionate B.P. 5-10-25 or 50 mg. in 1 cc. & 100 mg. in 2 cc.

IMPLANTATION . . . fused pellets of 100 mg. Testosterone in sealed glass tubes.

OINTMENT . . . Testosterone Propionate B.P. 2 gm. tubes 25 mg. per gm. 25 gm. tubes 2 mg. per gm.

SUPPOSITORIES . . . Testosterone 15 mg. in each.

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The CHEMIST AND DRUGGIST



or RETAILER—WHOLESALE—MANUFACTURER

SEPTEMBER 3, 1949

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

Copies 1/- each. Annual subscription, which includes *The Chemist and Druggist Diary and Year Book*, 30/-

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NEWS OF THE WEEK

Decontrol of Fruit Juices.—The Ministry of Food has decontrolled distribution of lemon, orange, grapefruit and lime juices. Manufacturers should make their own arrangements with their importers or shippers for procuring their requirements.

Price Controls Lifted.—The Board of Trade announces that the necessary Orders will be made shortly to free from price control a wide range of goods from September 26. The list includes toilet requisites, drugs, disinfectants, medicines, children's foods, surgical appliances, cameras, projectors, photographic goods (except x-ray films), binoculars and "soda." Control over storage charges has also been lifted.

Wellcome Research Fellowship.—The Nominating Committee for the Wellcome Pharmaceutical Research Fellowship, at its meeting on August 26, decided to award to C. S. Terry, B.Sc. (Pharmacy), M.P.S. Royal Technical College, Glasgow, the Wellcome Pharmaceutical Research Fellow-

ship for the academic year commencing October 1. Mr. Terry has been a member of the staff of the school of pharmacy, Royal Technical College, Glasgow, since 1946, and will undertake research on bacteriophages of *Ps. aeruginosa*.

Urgent Surgical Appliances.—The Ministry of Health has made arrangements under which contractors shall give priority to supplying surgical and medical appliances to a limited number of cases in which delay in the provision of an appliance would result in the deterioration of the patient's condition or would prevent his carrying on with his employment or, if a child, his education. Hospitals are being told to use the arrangements sparingly as abuse would defeat their object. In cases where priority is justified the three copies of the appliance order form No. 1 or No. 2 sent to the contractor should be endorsed "priority" at the top in red ink.

Sources of Cortisone.—Reports from U.S.A. show that two plant-principles have been discovered that can form starting

points for the synthesis of Cortisone (compound E). The principle more readily available (and closer in structure to that of Cortisone) is botogenin, a compound isolated from a tropical yam (*Dioscorea* species). The plant grows in Mexico, New Mexico, Texas and Arizona, is easily cultivated, and is available immediately in considerable quantity. The second principle, sarmantogenin, is an aglycone isolated from the seeds of *Strophanthus sarmantensis*, a plant growing in Senegambia, Sierra Leone, the lower Congo, and Liberia. It is understood that the species can be grown in tropical possessions of the U.S., and that the U.S. Public Health Service has sent an expedition to East Africa to study the position. Swiss workers are also investigating the discovery. Starting with sarmantogenin, the synthesis of Cortisone requires twenty stages, against thirty-seven stages when desoxycholic acid (obtained in small quantities from ox-bile) is used. The plant is a perennial and takes about five years to bear seed.

Token Exports to France.—The French authorities have agreed to a scheme of token imports from the United Kingdom during the twelve months ending June 30, 1950 similar to the scheme arranged for 1948-49. The allocation of quotas will be governed by the principles that operated in 1948-49. Interested companies are advised to communicate with their Trade Associations, stating the value of their exports to France from the United Kingdom of the articles in question during the years 1938-47-48. If a company does not belong to an association, or if no association exists for the item in question, the information should be sent to the Commercial Relations and Exports Department of the Board of Trade, I.C. House, Millbank, London, S.W.1. All French import licences under the scheme must be applied for on or before June 30, 1950. The following are among goods to which the scheme applies:

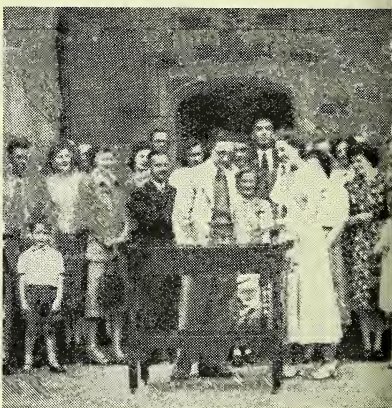
Brushware, dental cement and materials, photographic films and plates for amateur use, theatrical make-up, razors, razor blades and sharpeners, medicines and drugs (including proprietary medicines, veterinary products, insecticides and disinfectants), essential oils and fruit essences for food industry, cameras, polishes, deaf aids and parts, beauty boxes, surgical web, cod-liver oil, baking powder, filter paper, hygienic rubber goods, photographic apparatus (other than cameras and films and plates for amateur use, but including papers, lenses (substandard), enlargers, exposure meters, cine screens (substandard), photo finishing apparatus, photostat machines, stat file recorders, and other miscellaneous accessories and sanitary towels.

LOCAL NEWS

Chemists' Golf.—The Northumberland and Durham Chemists' Golfing Society held their sixth outing of the season (competition against bogey) on Arcot course on August 17. The winners were B.D.H. cup, Mr. T. Beattie, Newcastle (8), one down; Thornton Ross and Mr. W. Elliott, Bedlington (10), five down. Four golf balls, Mr. A. Harris, Newcastle (13), five down.

Coventry Chemists and N.H.S.—At a meeting of the Coventry Executive Council on August 23, Mr. W. A. Bales, M.P., complained that Coventry chemists not being paid for National Health prescriptions until six months after the had been done, and that the payments granted were inadequate. The chairman of the Council moved that the council should protest to the Ministry of Health against the prolonged delay in settlement of chemists' accounts, and this was carried.

Outing to Birdsgrove House.—Members of the Burnley Branch of the Pharmaceutical Society visited Birdsgrove House



on August 21 by way of Buxton, Bakewell, Chatsworth Hall, Darley Dale, Matlock and Ashbourne, where a short stay was made to see the parish church with its thirteenth century glass. The party was welcomed by the warden, Miss M. Jones, who conducted them through the house and gardens before serving tea. Afterwards a presentation was made to the branch chairman (Mr. A. H. Johnson) of an oak dinner wagon (see picture) specially made for Birdsgrove House.

IRISH NEWS

Pharmacist's Car Fire.—The car of Mr. I. Irwin, L.P.S.N.I., 395 Lisburn Road, East, Dublin, was destroyed by fire outside his pharmacy recently.

Gaelic Athletics.—The annual meeting of the College of Pharmacy Gaelic Athletic Club will be held at 67 Lower Mount Street, Dublin, at 8.30 p.m. on September 27. P. C. Cahill (chairman) will preside, Lieutenant Seamus Fox (secretary) will give the year's activities. The committee propose setting up a junior team in addition to the existing senior team. All supporters and players are urged to attend the meeting.

OVERSEAS NEWS

Anti-locust Research.—A small scientific party from the Anti-locust Research Centre of the Colonial Office, London, has been appointed to test new insecticides against locusts in the Aden area.

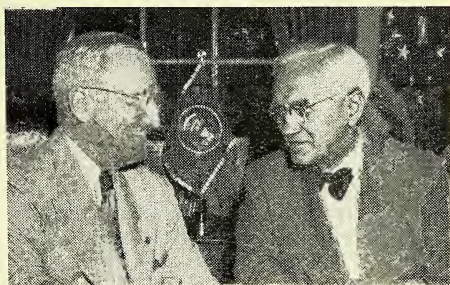
British Factories in South Africa.—Many British companies are concerned about losses of revenue since the South African ban on imports came into force. A communiqué from South Africa states that "two famous cosmetic manufacturing companies" are among a number of manufacturers who are attempting to circumvent the ban by setting up factories in South Africa.

New Drug Factory for India.—Work is expected to start shortly on the construction of a 3,000,000 rupee plant near Madras for the production of penicillin, antimalarial and sulphonamide drugs. The factory, which is expected to go into production before the end of 1949, will be operated by Indians, under the supervision of the Government's Penicillin Committee, but foreign technical help will be required.

Spanish Penicillin Production.—Two groups have undertaken to produce penicillin and other antibiotics in Spain, at an annual rate of 6 million mega units each concern. The factories will not, however, be ready for at least eighteen months. One group is composed of the Spanish companies Union Espanola de Químicos and the Sociedad Anonima de Penicilina, financially backed by the Urquijo group, and technically assisted by the U.S. Rock company. The other group is headed by Laboratorios Reunidos, itself a group of pharmaceutical firms such as

the Instituto Llorente, Laboratorios Ibys, Abello, etc., with the technical assistance of Schenley Laboratories, Inc., New York.

Comment on N.Z. Health Services.—The State health services in New Zealand are the subject of comment in a booklet "Social Security Services in New Zealand" recently published by a Hereford doctor, Dr. E. W. Marples, who visited the Dominion in the winter months of 1948-49. Dr. Marples writes that "The growth in the demand for drugs has been phenomenal. But it is not universal, as in two of the special areas which I visited, where a single doctor was serving, I found the cost did not exceed 2s. per head of the population, while for the country as a whole it has now risen to approximately £1 per head. The doctors themselves have drawn the attention of the Government more than once to this question of over-prescribing, suggesting that the free medical service has caused a patient-pressure on the doctor which can only too easily be satisfied by prescribing medicine, and at the same time they have suggested that a number of doctors are unnecessarily selecting the more expensive forms of medication and even that excessive quantities are prescribed. One thing is evident and that is that the pharmacists are reaping a rich harvest. It is not uncommon for a patient to take to a pharmacist anything from three to six prescriptions at the same time, and it is also possible for a patient to visit as many individual doctors as he or she chooses, each of whom the State pays, in order to obtain the particular drug he or she thinks is required."



FLEMING INTERVIEWS U.S. PRESIDENT.—Sir Alexander Fleming, discoverer of penicillin, who was the principal speaker recently at dedication ceremonies of the Oklahoma Medical Research Foundation, paid a visit to Mr. Harry Truman (President of the United States) at the White House, Washington.

NEW COMPANIES

STANWOOD PROPRIETARIES, LTD. (P.C.).—Capital £100. To carry on the business of chemists, druggists, etc. Stanley Haywood and Marion Haywood, directors. R.O.: 12 Mealhouse Lane, Bolton, Lancs.

BELL'S MEDICAL HALL, LTD. (P.C.).—Registered in Belfast. Capital £100. To acquire the business of Samuel Bell, High Street, Ballynahinch, co. Down. Samuel Bell, Edward A. Bourke and Sarah J. Bell, directors.

C. S. FLETCHER, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, etc. Charles S. Fletcher, M.P.S., and William J. Lomax, M.P.S., directors. R.O.: 263 Eccles New Road, Salford, 5.

M. H. DONALD, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists and druggists, etc. Marguerita H. Donald, M.P.S., Leonard S. Donald, Kathleen E. M. Fuell and Harold Fuell, directors. R.O.: 649 Foleshill Road, Coventry.

WALKER DAVIS & Co., LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing chemists and druggists, etc. First directors are to be appointed. Solicitors: Reynolds, Gorst & Porter, 7 Arundel Street, London, W.C.2.

GUMS & ESSENCES, LTD. (P.C.).—Capital £100. To carry on the business of dealers in gums, essences, perfumes, toilet preparations, etc. Victor Levy and Bernard Babani, directors. R.O.: 1 Quality Court, Chancery Lane, London, W.C.2.

CITY CHEMISTS, LTD. Registered in Belfast. Capital £1,000. To carry on the business of wholesale and retail chemists and druggists, etc. John B. Carolan and John V. McCasker, directors. R.O.: 146 New Lodge Road, Belfast.

T. W. FIELDS (CHEMISTS), LTD. (P.C.).—Capital £4,000. To carry on the business of manufacturing, pharmaceutical and general chemists, etc. Clive W. Simpson, M.P.S., and Kathleen Simpson, directors. R.O.: 9 North Bar Within, Beverley, East Yorks.

BURY SOLVENTS, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers, wholesalers and retailers of solvent oils, chemicals, drugs, medicines, disinfectants, etc. Robin A. Ramage and Catherine Ramage, directors. R.O.: 36 Bolton Street, Bury.

COMPANY NEWS

ABBOTT LABORATORIES, LTD., is name adopted, since August 23, by company previously known as Abbott oratories (England), Ltd.

LONDON FUMIGATION CO., LTD.—company proposes to increase the author capital from £1,000 to £20,000, and capitalise a part of the reserves by a b issue of 4,000 fully paid £1 ordinary sh and 5,000 fully paid £1 5 per cent. cu lative preference shares. Four £1 ordi shares and five £1 preference shares to be allotted for each £1 ordinary s held.

MACLEANS, LTD.—Net profit for year ended March 31 amounts £214,161, against £144,165 in the vious year, and £25,884 (£22,486 brought forward. Dividends paid tax) as follows:—4 per cent. redeem cumulative preference shares, £14, (£14,262); ordinary shares, payable parent company, £165,000 (£99,0 The sum of £6,748 (£6,505) is transfer to preference share redemption fund, £20,000 (£21,000) is transferred to reserve; £34,173 is carried forward.

ENO PROPRIETARIES, LTD.—Net pr for the year ended March 31 amounts £302,203, against £282,881 in the vious year, and £51,157 (£42,779) brought forward. Dividends paid (less t as follows:—5½ per cent. cumulative p ference shares, £30,250 (same); 5 cent. cumulative "A" preference sha £21,256 (£5,314, three months); ord ary shares, payable to parent compa £245,668 (£188,939). Nothing is tra ferred to tax reserve, compared w £50,000 in the previous year. The s of £56,186 is carried forward.

BUSINESS CHANGES

H. W. SALISBURY, LTD., have recent opened a pharmacy at the North Strat Dublin.

FRED STOREY, LTD., have removed to Hill Street, Belfast (Telephone: Belf: 23861).

MR. FRANK KEYES, M.P.S.I., has join the sales staff of F. H. Steele & Co., Ltd manufacturing chemists, Brookfield, Blac rock, co. Dublin.

BARCLAY & SONS, LTD., 95 Farringdo Street, London, E.C.4, have appointe Messrs. "Bill" and G. Merrivale to the representative staff.

TOPICAL REFLECTIONS

Holiday Problem

The difficult problem troubling every owner of a pharmacy who is unable to employ a qualified locum tenens will have been solved individually—or so it seems. Reference to the subject at the August meeting of the Pharmaceutical Society's Council (p. 277) indicates that the problem is merely "lie on the table" so far as the body is concerned; and on re-reading the Council's "Statement Upon Matters of Professional Conduct" my hope of finding some help there vanished. The need for an annual holiday is the greater, in some cases, because of the stress of trading conditions since 1939. As you point out in p. 283, the Pharmacy and Poisons Act of 1933 provides that the retail sale of drugs in every pharmacy shall be under the personal control of a pharmacist. I have no way of interpreting this provision so as to leave a pharmacy in the sole charge of an unqualified person. Even if it was possible to make a temporary conversion of the business into a drug store and to suspend the sale of poisons, drugs would have to be on sale. A branch may be convertible into a drug store, under the Pharmacy and Medicines Act, 1941, for a limited number of days if the proprietor obtains the necessary change in registration of the premises. But even if this could be effected, the trouble involved may render the plan impracticable. All things considered, it seems better to close a shop for a few days rather than to risk the expense incurred in driving a coach and driver through the Act of 1933.

Congress of Biochemistry

Many must have read with surprise that the recent International Congress of Biochemistry held at Cambridge (p. 275) was the first of its kind. The fact that more than 460 papers were presented is evidence of widespread interest and also of the development the science has undergone in recent years. I see with satisfaction that British scientists made a notable contribution to the subjects discussed; and it is not to predict that more will be heard of some of the investigations thus made public. A passage from an address given by a very distinguished biochemist, Sir Derrick Gowland Hopkins, a few years ago (*G. & D.*, 1935, II.424) is worth citing in this connection. Speaking of the rela-

tion between chemical constitution and physiological action, he said: "Now modern biochemistry . . . is fast acquiring methods which enable it to follow the progress of the invisible molecular events which occur in the tissues while they are living . . . While the influence of some few drugs may be physical, I believe the great majority act by intruding among these chemical reactions and by modifying their course; or again by entering into relations with the enzymes which catalyse those reactions. Now when we know into what kind of reaction and at what stage in its progress a given kind of molecule intrudes, or, in another case, know exactly the chemical nature of the enzyme with which, owing to mutual structural affinities, it makes efficient contact, then we shall be in a much better position for understanding just why the details of its molecular structure confer upon each drug a particular physiological activity."

Perfumery in the Past

The article on the history of J. & E. Atkinson, Ltd., a business now 150 years old (pp. 286-88), has an interest additional to its immediate purpose. I have sometimes thought that a map showing the addresses of former London perfumery manufacturers might be worth preparing. Such a map would not, I think, take in many streets east of the Strand; for as early as 1697, when advertisements were comparatively few, the "Post Boy" contained an announcement of the removal of a certain John Laurence, perfumer, to an address in that thoroughfare. This worthy had received, it appeared, "a parcel of the very finest Perfumes and Spirits of Jesemy and Orange, and Spirits of Brigamot, and Pomatiums . . ." In that age wigs were scented by fashionable wearers. It is just as well, perhaps, that N.H.S. wigs are not so prescribed. In 1711 an advertisement of "The Famous Bavarian Red Liquor" claimed that in addition to imparting "a delightful blushing Colour to the Cheeks," the cosmetic was "good in many Cases to be taken inwardly." Bear's grease was advertised a few years before Mr. James Atkinson began his successful career. A Strand perfumer named Sangwine sold it with the added attraction that "any Lady or Gentlemen" might see the fat cut from the carcase.

Xrayser

BIRTH

BANKS.—Recently, Kathleen, the wife of Thomas J. Banks, M.P.S.I., 63 Oaklands Park, Ballsbridge, Dublin, of a son (David Francis).

MARRIAGE

WOOD—COLLINS.—At Dublin, recently, James J. Wood, B.Sc., Cashel, Eire, to Eleanor K.M.T.M. Collins, M.P.S.I., The Square, Castlecomer, co. Kilkenny.

DEATHS

CARVOSSO.—At Burgess Hill, Sussex, on August 23, Mr. Laurence Albert Carvosso (secretary of Richard G. Mumford & Co., Ltd., Hove), aged thirty-seven. Mr. Carvosso contracted infantile paralysis and passed away after a week of great pain. He is survived by his widow and three young children. Mr. R. G. Mumford writes: "He was a much beloved man and will be missed by all his colleagues."

FARDON.—On April 16, Mr. Arthur Edward Fardon, M.P.S., 15 Highmoor Road, Caversham, Berks. Mr. Fardon qualified in 1887.

MORGAN.—On July 25, Mr. Ronald William Morgan, M.P.S., Hillcrest, Llanrhidian, Swansea, Glam.

MURCHIE.—At 25 Tassie Street, Shawlands, Glasgow, on August 22, Mrs. Annie McKay McGregor Murchie, widow of the late Mr. John Murchie, chemist and druggist, Girvan.

WILLS

MR. J. DAY, retired pharmacist, Groveville, Hepworth Lane, Mirfield, Yorks, formerly in business as a chemist in Savile Town, Westow, Thornhill Lees and Ravensthorpe, and a former director of J. Dodd & Co., Ltd., chemists and herbalists, King Street, Huddersfield, left £7,289 £7,227 net).

MISS K. M. SAVAGE, M.P.S., Somersby, Hillside Road, Burnham-on-Crouch, Essex, and 53 Station Road, Burnham-on-Crouch, formerly a director and the superintendent of Savage (Chemists), Ltd., Burnham-on-Crouch, left £6,113 (£5,989 net). She left all her shares in Savage (Chemists), Ltd., to her brother Henry.

MR. F. W. WHITWELL, retired pharmacist, 136 Lincoln Road, Werrington, Peter-

borough, for many years in business at Millfield, Peterborough, left £9,710 (£9,120 net). Probate has been granted to his son, Mr. Henry E. Whitwell, M.I., 283 Lincoln Road, Peterborough.

MR. W. D. HALL, retired pharmacist, 8 Links Crescent, Skegness, and 74 Luny Road, Skegness, Lincs, left £5,100 (£4,725 net).

MR. EDWARD HINDLE, Ph.C., Galveston, Westella Road, Kirkella, Yorks, and Hesse Road, Hull, left £23,498 (£23,100 net).

MR. EDWARD LUDLOW DELARUE, retired pharmacist, 28 Lullington Avenue, Hemel Hempstead, formerly of Thornton Heath, Surrey, left £2,731 (£2,695 net).

MR. G. LAWRENSON, retired pharmacist, 16 Church Way, Tarring, Worthing, Sussex, formerly of Grimsby, left £5,500 (£5,742 net).

MR. R. D. SILVER, retired pharmacist, 312 London Road, and Market Place, Farnham, Northants, left £2,540 (£2,200 net).

PERSONALITIES

MR. STANLEY ROBSON, M.Sc., D.I.F.R.I.C., has been elected President of the Society of Chemical Industry.

MR. A. R. MELHUISH was the guest of honour at a dinner held in London, recently, by a number of the Pharmaceutical Society's Council members, and other colleagues and friends, to mark his eightieth birthday.

DAME DEHRA PARKER, D.B.E., has been appointed Northern Ireland Minister of Health and Local Government. She has served as chairman of the General Health Services Board and has had close experience of the Health Service and the part played by pharmacists in the Health Service.

MR. J. P. BARKER (chief pharmacist, Sheffield Royal Hospital), in an interview with the "Sheffield Telegraph" recently described as "incompatible with safety" the acute shortage of qualified men. "It is a fact that the service was not suffering," he said, "was a credit to the loyalty and devotion of the chemists and dispensers, many of whom had to forfeit off-duty time, work on Bank holidays and Sundays and, in some cases, give up their annual holiday."

BRITISH ASSOCIATION PRESIDENTIAL ADDRESSES

The 112th annual meeting of the British Association for the Advancement of Science was held at Newcastle-on-Tyne on August 1. SIR JOHN RUSSELL, O.B.E., F.R.S. (President), dealt in his address with world population and food supply. He referred to the "steadily improving" measures for protecting plant and animal health. Plant diseases still defeated scientists, but the persistent effort of present workers would not fail to bear fruit.

of Seaweeds

In her presidential address to the botany section, PROFESSOR LILY NEWTON dealt with the utilisation of the algae. Recent research by a number of workers, she said, had shown the value of seaweeds, especially the male gages, to be rich in α and β carotene, a proportion of which would readily be converted by the animal into vitamin A. Vitamins B₁ and B₂ had also been isolated, together with vitamin C, the latter occurring in littoral seaweeds. Vitamin D had also been shown to occur, and fucoxanthol, a compound close to vitamin D, had been isolated from many seaweeds. PROFESSOR NEWTON described the uses of alginates which had enabled an English agar to be produced suitable for bacteriological use. It was evident, she said, that of the seaweeds from which a good agar was most likely to be made, two occurred in harvestable quantity. The two plants, *Chondrus* and *Gigartina stellata*, were known respectively as carrageen. Around the coast of Britain those plants were habitually harvested in small quantities by the housewives of the west coast of Scotland and the Orkney islands and stored for winter use. Orr and Marshall, working at Millport, had found that, though the untreated extract of these plants was too soft to be used for bacteriological work, it could be converted into an agar by heating in an autoclave, with the addition of potassium hydroxide, the whole being subsequently neutralised with hydrochloric acid. The resulting agar was rendered colourless by treatment with activated charcoal and was entirely satisfactory for laboratory use. In the years 1943-45 over 300 tons of wet seaweed were gathered. In most places *Gigartina*, which formed 95 per cent. of the harvest, could only be gathered for two hours

before and after low-water, on about four days in each fortnight. Since the war, harvesting had continued on a commercial basis and an excellent agar was being made by Fine Industrial Commodities, Ltd. It was suitable for all the purposes for which Japanese agar could be used, including bacteriological work, and was more transparent than the Japanese product.

"That the algae are capable of selective absorption of salts from the sea-water, as is shown by their high iodine content, is another phenomenon that suggests new fields of study. The presence of trace elements greatly influences the growth of these plants in culture, but much more investigation of them is necessary to ascertain which elements are of most importance for the various groups of algae. . . . Ecological study is inevitably strongly linked with the needs of commerce and with the training of the harvester. *Gigartina* increases the number of cortical rows and the thickness of the walls as the summer advances, and the gel strength of the extract increases accordingly. When growth and gel strength are at a maximum, fruiting begins, and the harvester has not only to gather the crop in the appropriate season but has to be careful that the future supply is not permanently impaired."

Addressing the chemistry section, its president (SIR ALFRED EGERTON, F.R.S.) spoke on the influence of the study of combustion on chemical progress.

CANADA'S TRADE

PRODUCTION of pharmaceutical and chemical products in Canada during 1948 was valued at \$56 millions, against \$55,753,900 in 1947. Insecticides, flavourings, cosmetics, etc., accounted for an additional \$14½ millions. Imports of medicinal products increased to \$13.1 millions from \$11.6 millions in 1947, but exports declined from \$4.4 millions to \$3.2 millions. The industry had 211 establishments and employed about 7,400 workers. In the toiletries preparations industry proper there were ninety-nine establishments in 1948, with 1,800 employees, and output was valued at \$18.6 millions (about 10 per cent. more than 1947). A substantial production of toilet goods as secondary products of concerns in the soap and medicinal industries brought the total output from all sources to \$24 millions.

TRADE NOTES

Price Reduction.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, point out that a reduced price for Haliborange came into operation on September 1.

Addition to List.—Parke, Davis & Co., Staines Road, Hounslow, Middlesex, announce the introduction of Chloromycetin ampoules, 0.25-gm., in bottles of twelve.

Overseas Standard Specifications.—The British Standards Institution, 24-28 Victoria Street, London, S.W.1, acts as agent in the United Kingdom for all overseas national standards organisations.

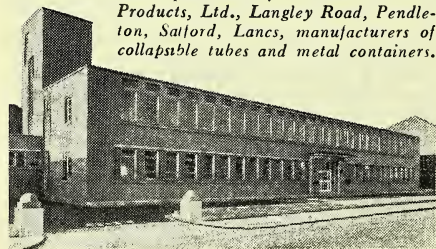
Now Available in Drums.—Harker, Stagg & Morgan, Ltd., Emmott Street, London, E.1, are now issuing in drums for N.H.S. purposes pulv. magnesii trisilicatis co., pulv. magnesii carbonatis co., and pulv. kaolini co., N.F., 1949.

T.S.A. Licence Holders.—Thornton & Ross, Ltd., manufacturing chemists, Linthwaite, Huddersfield, have been issued with a licence under the Therapeutic Substances Act, 1925, authorising them to manufacture aqueous solutions and oily suspensions of penicillin.

Again Available.—Continental Laboratories, Ltd., 101 Great Russell Street, London, W.C.1, announce that Uralysol is again available to the original pre-war formula (containing thymine acid and piperazine tartrate). A 16-oz. dispensing pack has been introduced.

Delivery Service Improved.—J. H. Dale & Son, Ltd., Broadway, London, E.13, offer the following improved delivery facilities for medical bottles and pharmaceutical sundries:—Within a radius of twenty-five miles: delivery by the company's own vans, twenty-four hours after receipt of order; beyond twenty-five miles: immediate dispatch by own van or by road transport.

New office block for Universal Metal Products, Ltd., Langley Road, Pendleton, Salford, Lancs, manufacturers of collapsible tubes and metal containers.



Bonus Offer.—Southon Laboratories, Ltd., Upper Richmond Road, London, S.W.1, manufacturers of Esobactulin capsules for protection from colds, announce that bonus offer of thirteen to the doz. is available to retailers, in addition to the 3 per cent. trade discount.

Northern Ireland Displays.—Thornton Kerfoot & Co., Ltd., Bardsley Vale, Lancs, are holding exhibitions of their preparations in Londonderry (City Hotel), September 5-9, and in Belfast (Eglinton Hotel), September 12-23. They invite Ulster chemists to see the displays.

British Magnesias.—The Chemical & Insulating Co., Ltd., Darlington, of (through their sole selling agents in the U.K., Clifford Christopherson & Co., Ltd., 49 Park Lane, London, W.1) light carbonate of magnesia, B.P., and light calcium magnesias, details of which are given on another page.

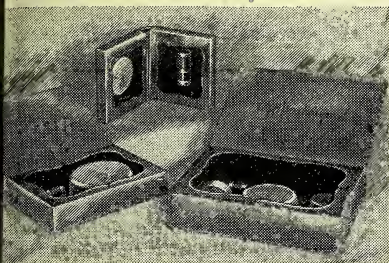
Popular-priced Lip Pencil.—Granville Perfumery, Ltd., Carlisle Road, London, N.W.9, draw attention to their new "golden metal" lip pencil which is available in six shades at a popular price. A national advertising campaign is in progress. Details of prices are given in the company's announcement in this issue.

Price Changes.—British Chemicals Biologicals, Ltd., 43 Regent Street, London, W.1, state that on August 1 the price of Casydrol (parenteral) 500-c.c. bottles was increased. Fissan toilet powder has undergone a change of retail price, though the trade price is unaltered and a bonus scheme in connection with the item continues as previously.

Distribution Arrangements.—Brobat Distributors, Ltd., have ceased trading but Brobat products continue to be available. They are being supplied direct to retailers and wholesalers by the Brobat Manufacturing Co., Ltd., 52 Wandle Bank, Wimbledon, S.W.19 (direct orders and accounts to Brobat Manufacturing Co., Ltd., Brobat Building, 241 Main Road, Sidcup, Kent).

"Glamour in Gold" Gift Sets.—Mafactor, Hollywood & London (Sales), Ltd., 16 Old Bond Street, London, W.1, have issued three new gift sets, each in gilt with red interior, and each in the form of a book. The smallest, entitled "A Girl's

in Hollywood by Max Factor," compact purse-size Pan-Cake make-up and standard lipstick; the second (left) is



called "My Make-up Secret" and contains standard-size lipstick, dry rouge and purse-size face powder. The third, "A Gift from Hollywood," comprises medium face powder, dry rouge, new-size lipstick, purse-size Pan-Cake make-up and jar of invisible make-up foundation.

Price Change and Bonus.—Potter & Clarke, Ltd., 60 Artillery Lane, London, announce that the price of Potter's Earrrh pastilles was increased, with the approval of the Central Price Regulation Committee and the Proprietary Articles Trade Association, on September 1. Simultaneously a new bonus offer took effect under which orders for six doz. qualify for 10 per cent. and orders for twelve doz. for 20 per cent. discounts in return for window display.

Benelux Fair.—Arrangements have been made under which, during the run of the Benelux Fair, Antwerp, Belgium, September 23 to October 9, periodicals and technical publications issued by Morgan Bros. (Publishers), Ltd., 28 Essex Street, Strand, London, W.C.2, will be on show at the Hotel Century, Antwerp. The display will be staged in a large room on the first floor of the hotel, which is the largest in the city; the room will be set out as a reading and writing room for the convenience of visitors.

Now Tax-free. — BRITISH CHEMICALS BIOLOGICALS, LTD., 43 Regent Street, Loughborough, Leics, state that, in consequence of Purchase Tax (No. 3) Order, 1949, Ferrivenin (Benger) is now exempt from purchase tax.—CIBA LABORATORIES, Ltd., Horsham, Sussex, announce that since August 22 Priscol (2-benzyl-4:5-imidazole hydrochloride) and Eticyclin

(ethinyl oestradiol) Linguets have been exempt from purchase tax under the Purchase Tax (No. 3) Order, 1949. Priscol is issued in bottles of forty and 200 25-mgm. tablets, in boxes of ten ampoules (10-mgm. in 1-c.c.), as 20-gm. tube of ointment, and in 10-c.c. bottle of solution. Eticyclin Linguets are issued in bottles of twenty-five, 100 and 500 0.01-mgm. and 0.05-mgm. products.—FERRIS & Co., LTD., Bristol, state that, from September 1, Nepenthe will be free of purchase tax, but that an increase of price has been made necessary by higher costs. A list of well over 100 items issued in tax-free dispensing packs is available from the company.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).

—*MacLennan Brand Products, Ltd.*, Pherriban tonic tablets, new size, 13s. 6d. doz., tax 33½ per cent., inclusive retail price 2s.

W. T. Owbridge, Ltd., Owbridge's lung tonic pastilles, 7s. doz., tax 33½ per cent., i.r.p. 1s.; 2-5 gross, 6s. 6d. doz. Owbridge's lung tonic, family size, 28s. 9d. doz., tax 33½ per cent., i.r.p. 3s. 11d.; 4 doz., 27s. 6d. doz. Orders for 1 doz. included with 1 gross 1s. 6d. size are also invoiced at 27s. 6d. doz. The prices and terms given for both products do not apply in Ireland or Northern Ireland.



HAIR BEAUTY FINALISTS.—Finalists in Bandbox national hair beauty contest, organised by Ashe Laboratories, Ltd., 120 Victoria Street, London, S.W.1, and judged at the Locarno, Streatham, London, S.W., recently. All were entertained to a week-end in London as part of their prize. Left to right, the Misses Jacqueline Terry, London (3rd), Hilda Herkes, Edinburgh (winner), Terryle Woodriffe, Southsea (2nd) and Jacqueline Phillips, Brighton (4th). With them is one of the judges.

LONDON PHARMACEUTICAL COMMITTEE

At the annual meeting of the London Pharmaceutical Committee held recently, the chairman (Mr. C. H. Foster) presiding, the following officers were appointed for 1949-50: *Chairman*, Mr. G. B. Barnard; *Vice-chairman*, Mr. Clifford Evans; *Secretary*, Mr. G. A. Tocher; *Assistant Secretary*, Mr. W. F. Wilkinson, Ph.C. Mr. Barnard's appointment makes him chairman for the third time, the previous occasions being 1918 and 1931. The following were appointed to serve on Committees of the London Executive Council: *Pharmaceutical Service Committee*, Messrs. G. B. Barnard, A. R. Melhuish and C. A. Noble (deputies, Messrs. H. R. Edgecombe, C. H. Foster and L. G. Lomas). *Hours of Service Committee*, Messrs. G. H. Armistage, G. B. Barnard and D. S. Henderson (deputies, Messrs. F. H. Connelly, H. Warburton and R. Collings).

The Committee decided to issue, with the first annual report of the new Committee, the statements of accounts and balance sheets for the new financial year ended March 31, 1949, and for the period prior to July 5, 1948.

A complaint that the paper wrappers for No. 2 standard dressings supplied to chemists did not always comply with the

British Pharmaceutical Codex specification was considered, and the Committee decided to call the attention of the National Pharmaceutical Union to the matter for appropriate action. The Committee approved action taken by the secretary in furnishing to certain borough councils information including particulars of the dispensing facilities available locally by mail or otherwise. It emerged that the inquiries were chiefly on the problem of "out of hours" service.

Figures Examined

The Central Checking Bureau's report on January prescriptions (which were priced in full) was considered. The checking and the accountancy figures were examined and accepted as an index that a reasonably satisfactory standard of accuracy in pricing was being maintained. During the month of January 1949, London chemists dispensed 1,652,000 prescriptions at a cost of £195,457. In February the number was 1,779,243, costing £207,800. The average cost per prescription, excluding containers, was 28.29 pence for January and 28.04 pence for February; totals paid for containers were £17,500 and £18,536 respectively.

PERSONALITIES OF SCIENCE ON POSTAGE STAMPS

BABES, the subject of the Roumanian orange stamp (left), was a physician and bacteriologist. He discovered a genus of protozoans (babesia) in the blood of animals, and granules in bacteria that would take stain. He demonstrated the passage of certain bacteria through unbroken membranes and prepared an anti-tuberculosis serum. Johann Mendel (1822-24), the subject of a 10-pfennig brown Danzig issue of 1939, carried out on peas and beans breeding experiments that established the principles of heredity embodied in the so-



called Mendelian laws. Mendel was monk, and conducted his experiments in the gardens of the monastery to which was attached. His "Planta Hybridisata" was published as a series of papers, 1866-7

INTERNATIONAL ORGANISATION FOR PHARMACY STUDENTS

a conference called by the British Pharmaceutical Students' Association, and held at the premises of the Pharmaceutical Society, London, from August 23-26 representatives of pharmaceutical students in five countries decided to unite their national organisations into one international association, to be known as "The International Pharmaceutical Students' Federation."

The object of the Federation is to study and promote the interests of pharmaceutical students and to encourage international co-operation amongst such students." The ways in which it intends to pursue its object include establishing a permanent form of contact between national organisations, encouraging an exchange of ideas by international correspondence and visits, by collating opinions on information on pharmaceutical education, and by co-operating with other international student organisations on a scientific and cultural plane. A magazine is to be published. Full membership of the Federation is to be open to national organisations of pharmaceutical students, where a national organisation does not exist, the pharmaceutical student associations of the country may be admitted to membership. Among its activities will also, the organisation of international pharmaceutical student conferences, and encouragement of the dissemination of professional knowledge.

Conferences are to be held biennially at the time of the general assembly of the International Pharmaceutical Federation. The annual subscription for full membership is £2, or its equivalent, for members of the association 10s., and for associate members 5s. The funds are to be kept, and administered, by the International Pharmaceutical Federation.

Officers Elected

The following officers were elected:—*President*, Mr. S. J. Relph, Ph.C. (Great Britain); *Vice-president*, Mr. J. O'Grady (Ireland); *Secretary-general*, Mr. B. Foltmann (Denmark); *Liaison-secretary*, Mr. Bosmann (Holland); *Treasurer*, Miss de Bot (Holland).

At the inaugural session of the conference held on August 23, delegates from Holland, Denmark, Ireland, Switzerland, Austria and the United Kingdom were

welcomed by Mr. A. HAMILTON, Glasgow (President, British Pharmaceutical Students' Association). The CHAIRMAN (Mr. J. O'GRADY, Dublin) said messages of good will had been received from several countries or organisations who had been unable to send delegates. Among these were France, Greece, Australia and the University of Oklahoma.

Inaugural Address

MR. H. N. LINSTED, O.B.E., M.P. (a secretary of the Pharmaceutical Society and vice-president of the International Pharmaceutical Federation) addressing the conference said that it was fitting that the inaugural meeting should take place in the building which for 100 years had been the heart and soul of British pharmacy. Everywhere today men were wondering who was going to be master, the state or the citizen? In one form or another this was evident all over the world and those who sought an answer must look beyond their own frontiers. It was especially important today that like-minded men of all countries should consult together about the present-day manifestations of this old struggle. Personal discussions between men of the same profession in different countries could refresh their enthusiasm from the knowledge that others faced identical problems.

International co-operation in pharmacy dated back in Europe to the eighteen hundreds at least, and international congresses of pharmacy had been held in most capital cities of Europe before the formation of the International Pharmaceutical Federation in 1912. Pharmacy students had not been represented on the Federation in the past but Mr. Linstead welcomed on its behalf the formation of the Students' Federation. There was work for it to do, and he assured them that the older body would do all it could to help and encourage them. It was a great thing to be a student in Europe today and if they could secure and maintain the principles of self-government in the profession they would keep pharmacy true to itself.

MR. S. J. RELPH proposed a vote of thanks to Mr. Linstead which Mr. K. BOSMANN, Holland, seconded.

Countries represented at the conference included Australia, Austria, Denmark, Eire, Faroes, Finland, Holland, Norway, Sweden, Switzerland and the U.K.

NATIONAL HEALTH SERVICE REPORTS

THE following statistics are taken from recently published annual reports of Pharmaceutical Committees or Executive Councils on the first year of the National Health Service.

SURREY COUNTY	July-Dec. 1948	January- June, 1948
Persons on doctors' lists	1,149,984	564,967
Prescriptions dispensed...	2,083,292	962,765
Total value ...	£309,986	£99,591
Average cost per person (six months) ...	64.7d.	42.3d.
Average cost per prescription ...	35.7d.	24.8d.
Payments for rota services ...	£3,808	—
Number of pharmacies	440 (June 1949)	430 (June 1948)

Figures are for the first six months with comparative figures for the last six months of the old service.

AYRSHIRE	July 1948- June 1949
Payments to chemists ...	£135,514
Number of prescriptions dispensed	688,047
Payments to doctors...	£303,735
Payments to dentists ...	£256,958
Payments to opticians ...	£104,237
Total payments ...	£800,444
Persons on doctors' lists	309,946
Percentage of population ...	96

ADMINISTRATIVE COUNTY OF LANCASTER	July 1948- June 1949
Persons on doctors' lists, July 1949	1,962,532
Percentage of population ...	97.5
Number of doctors on list...	1,701
Cost of general medical service ...	£1,739,135
Number of pharmacists ...	584
Total cost of service ...	£4,798,701
Cost per head of population on doctors' lists	£2 9s.

SOUTHPORT	June 1949- July 1948-
Number of chemist contractors ...	34
Number of pharmacies ...	43
Payments to chemists ...	£62,362
Total cost of service ...	£313,610

HUDDERSFIELD	July 1948- June 1949
Number of pharmacies ...	40
Prescriptions dispensed ...	687,359
Cost of prescriptions, July 1948 to February 1949 ...	£62,361
Average cost per prescription ...	33.48d.
Average cost per prescription 1945-6	18.1d.

WIGAN AND DISTRICT	July 1948- June 1949
Number of prescriptions dispensed...	674,753
Payments to chemists ...	£73,000
Payments to doctors ...	£72,419
Total cost of service ...	£287,589

BRADFORD	July 194- June 194
Number of prescriptions dispensed	1,578.6
Average number dispensed per shop	14.75
Amount paid to contractors ...	£174,71
Average payment per shop ...	£1,664
Administrative expenses ...	£321
Average cost per shop ...	£3 1
Cost per £100 received ...	3s. 8d.

* Represents nine months' final payment three months' payment on account.

WARWICKSHIRE	July-D 1948
Prescriptions dispensed (six months)	619,90
Cost of ingredients and fees ...	£81,66
Average cost per prescription, excluding containers ...	31.6d
Cost of containers ...	£6,456
Administrative expenses (July 1948-June 1949) ...	£216

GLASGOW	July 194- June 194
Persons on doctors' lists ...	1,102,9
Chemist contractors ...	3
Pharmacies ...	4
Prescriptions dispensed ...	2,909,1
Payments to chemists ...	£541,6
Total cost of service ...	£3,123,3
Cost per head of population ...	£2 1

* Represents three months final payment and nine months' payment on account.

For National Health Service reports published previously see *C. & D.*, June p. 827, July 30, p. 131 and August p. 162 and 163.

CAUSE OF DENTAL CARIE

PINCUS, at the Physiology Department Medical School, London ("British Medical Journal," August 13, p. 358) has put forward a new hypothesis on the production of dental caries. Between the cusps molar teeth are grooves which, especially if narrow, are particular sites of caries. Newly-erupted teeth the grooves contain two structures; one being a mucoprotein (a substance containing mucoitin sulphuric acid). The enamel is covered with a layer of mucoprotein at eruption and throughout life is permeated with it, while dentin which lies below the enamel, contains chondroitin sulphuric acid. Gram-negative bacilli found in caries can release an enzyme, sulphatase, which in turn the author suggests can release sulphuric acid from the combined forms contained in dentin and enamel thus attacking the calcium salts in both structures, and consequently causing caries.

SECOND EDITION OF PACKAGING CODE

INTRODUCTORY sections of the revised British Packaging Code (B.S. 1133) are now available. The revision has been carried out under the supervision of the B.I. Packaging Standards Committee, representative of twenty-four trade and scientific bodies, eight Government departments, large trading concerns, and individual packers, assisted by technical committees of experts for individual sections of the Code. Several sections of the old Code have been subdivided and merged with others. For example, "Methods of test" are now included in the individual sections to which they relate. Too large to issue as a single entry, the Code is being published as seven sections, as and when ready. The first three sections are grouped together in an "Introduction to Packaging" (4s., post free) in which the principles governing design, construction, and materials are outlined. The titles of the three sections are: "Choice of Containers and Method of Packaging," "Storage of Containers and Packaging Materials," and "Addressing, Marking and Identification." Five other sections are also available in completed or provisional form; they deal with wooden containers (6s.), textile bags, sacks and wrappings (3s.), packaging felt (s.), adhesive closing and sealing tapes (s., 6d.), and tensional steel strapping (s.). Four sections to be issued in the near future cover mechanical handling of packaging materials and filled containers; protection against corrosion; paper wrappers and containers, including films, foils and laminates; and wicker and veneer baskets. The remaining titles, on which work is proceeding as rapidly as possible, are "Protection Against Pest and Microbiological Attack," "Metal Containers," "Cushioning Materials Other Than Felt," "Cordage," and "Adhesives for Packaging." In general, each section gives definitions of the materials or methods concerned, notes on their use, standards of performance required, methods of testing, and illustrations (photographic and diagrammatic) of uses and testing appliances. A glossary of packaging terms is also in preparation.

A Production Problem

The Code recommends that, since the manner in which goods are packed governs to a great extent the condition in which they are delivered, packaging

should be considered as part of production, and not as a separate problem. Serious attention should be given to the question of eliminating, where possible, unnecessary projections, overhanging structures, unprotected or uncushioned components. As a rule, the ideal is a product that can be packed into a simple container without requiring extensive blocking, padding or wrapping. Redesigning products to reduce cubic footage or unnecessary weight may effect a considerable saving in freightage bills. When the function of the product necessitates lack of symmetry, protruding members, top-heavy construction, etc., an endeavour should always be made to manufacture the product in such a way that the "offending" members can easily be dismantled for packing in a less wasteful or dangerous manner, and can just as easily be reassembled for use at destination. Small (and especially low-priced articles) should, where possible, be designed to fit snugly into, under or alongside each other, so as to reduce empty space in the package. The fewer times a commodity is handled before being protected by packaging the less liability to damage and deterioration. Hence, "the best time to pack is immediately after the productive operations, and the best place immediately adjoining the production line."

Summary of Hazards

Summarising the hazards which militate against the delivery of goods in a serviceable condition to the user, the Code singles out the four following factors as being the chief dangers:

- (a) Moisture in all its forms.
- (b) Inadequate packaging.
- (c) Bad and careless handling.
- (d) Unsuitable storage before, during and after transport.

The same package will not necessarily serve for both home and overseas, but "the risks involved at each handling are the same whether the goods be sent across the Channel or around the world."

Outside Europe, North America, and Australasia, cargoes are still lightered ashore. Weak packages are crushed in the process in nets, or by being stowed in lighters under heavier goods. Even in Europe that may occur and "it is on record that in some ports there is deliberate mishandling by manual labour—for ease of subsequent pilferage." In tropical coun-

tries rainfall, heavy condensation, and blistering heat play havoc with all forms of outer containers, especially when followed by intense cold at night. In normal conditions the time lapse between packing and delivery would be calculable within close limits, and the necessary protection provided. Recently a new element has entered into the picture. Port congestion results from failure of the importer to take delivery, owing to his inability to obtain an import licence or foreign exchange, or slowness in clearance through Customs, or a lightning ban on all imports. Open storage on quays is now common. The damage potential rises; and so

does the opportunity for pilferage. The availability of packing materials is gradually improving, but in no circumstance should packers accept poor materials (e. unseasoned timber) as substitutes. Na should be cement coated or etched (th can be etched by a simple process dcribed in the Code). Standards will, course, count for or against Britain wh overseas customers are again able to choo supply sources.

Copies of the introductory and other sections, as published, may be obtained from the British Standards Institution Sales Department, 24 Victoria Street, London, S.W.1.

POISONS LAW, 1935-49

5. Dangerous Narcotics

THE 1948 Report of the Permanent Central Opium Board is the first to be issued since the Board was newly constituted after the war, and the new Board pays tribute to its predecessor in bringing international control to a "comparatively satisfactory state," in spite of the disruption caused by war. The 1947 statistics show a continued upward trend in the production and consumption of manufactured narcotics. Emphasis is laid by the Board, however, on the fact that the increase in morphine manufacture is due solely to additional demand for drugs (especially codeine) derived from morphine. The amounts of addiction drugs (morphine, diacetylmorphine and cocaine) are on average about the same as during the previous ten years. A peak in the consumption of manufactured narcotics has not yet been attained, to judge from the "Estimated World Requirements of Narcotics in 1948" issued by the Drugs Supervisory Body. The greater demands are due, according to declarations by various Governments, to extensions of medical services, increases in population, and replenishments of stocks. Nevertheless the Board is constrained to deal at length with diacetylmorphine and morphine-substitutes as danger spots in narcotics control.

Diacetylmorphine Problem

The Permanent Central Opium Board and the Drug Supervisory Body met in a special joint session to consider the high rate of diacetylmorphine consumption in Finland, Italy, New Zealand, Sweden and Australia. Table I, in which countries in geographical proximity and with simi-

lar medical practice are compared, shows marked disparity in *per capita* consumptions. The figures are in kilos.

TABLE I

Country	1936		1947	
	Total	Per million inhabitants	Total	Per million inhabitants
Group I				
Finland ..	25	6.98	49	17.67
Sweden ..	16	2.56	28	4.12
Denmark ..	16	4.28	2	0.48
Group II				
Italy ..	114	3.40	227	5.00
France ..	70	1.67	30	0.73
Belgium ..	11	1.33	16	1.90
Group III				
New Zealand ..	1	0.64	6	3.33
Australia ..	18	2.67	25	3.30
Canada ..	20	1.82	25	1.99
United Kingdom	52	1.10	63	1.87

Finland, with already the highest *per capita* consumption in 1936, trebled it in 1947; Sweden nearly doubled hers, but Norway almost abandoned the use of the drug, the figure for Norway being below 0.3 kilo per million inhabitants. Italy now consumes seven times more than France on a *per capita* basis. Consumption in New Zealand increased fivefold, and is now equal to that of Australia, which is in turn almost twice that of Canada or the United Kingdom. The situation in Finland has been the subject of prolonged correspondence over several years. In a letter dated November 25, 1947, the Finnish Government merely stated that "the high figures for consumption, based upon figures supplied by chemists, manufacturers and the Central Military Pharmacy, are due to post-war circumstances which make it impossible to reduce them; and to the

that, owing to the war, the general health of the country has deteriorated." Its 1949 estimates the Finnish Government includes the unprecedented amount of 197 kilos of diacetylmorphine (51 kilos per million inhabitants). The Board and the Supervisory Body consider that nothing can justify the present level of consumption of diacetylmorphine in Finland, and urges that the competent authorities in Italy, New Zealand, Sweden and Australia should also review their requirements in consultation with representatives of the medical professions in the hope of reducing consumption in future years. By contrast, France and Denmark have drastically cut consumption, and the use of the drug has been abolished altogether in Japan. Countries that do not use diacetylmorphine at all are therefore now:—

Austria	Cuba	Chile
Bulgaria	Dominica	Columbia
Czechoslovakia	Guatemala	Peru
Luxembourg	Honduras	Venezuela
Netherlands	Mexico	China
Spain	Nicaragua	Japan
U.S.A.	Salvador	Egypt
Costa Rica	Brazil	Liberia

The list includes countries of every size and with diverse climates. They range from the most advanced to the least developed in medical practice. Among them are countries at almost every stage of economic development. Possible causes for continued and even increased use of diacetylmorphine are considered to be:—(a) that medical opinion is divided; (b) that, regarding its habit-forming attribute, diacetylmorphine acts quickly and powerfully in alleviating pain and cough. No doubt doctors not alive to its dangers continue to use it far too freely, and prescribe to administer it in cases where other drugs (codeine, Dionin, or Dicodid) could be substituted; (c) that at less cost it gives the same therapeutic effect; (d) that Governmental controlling authorities do not draw sufficient attention to injudicious use of the drug. The Board and the Supervisory Body consider that the above considerations are not decisive indications of essentiality. The fact that countries with advanced medical practice have entirely done without the drug for twenty years is taken to show "that there is an *a priori* case for its total abolition."

The amount of morphine used as such has varied little, but that does not indicate that the demand for analgesics is not rising; it means rather that morphine is

being replaced more and more by synthetic drugs not yet covered by the controls established under the 1931 Geneva Convention. Notable among the new drugs are:—

- 1 - methyl - 4 - phenyl - piperidine - 4 - carboxylic acidethyl ester (supplied as hydrochloride under various names including Demerol, Dolantin, Dolosal, Isonipeaine, and pethidine).
- 4 : 4 - diphenyl - 6 - dimethylamino - heptan-3-one (hydrochloride supplied as Amidone, Adanon, Dolophine, Methadon, Miadone, and Physeptone).

Table II gives an indication of the trend in demand for the new drugs as compared with morphine. The data are from the 1949 estimates furnished by the United States, the United Kingdom and France. The figures are in kilos.

	Morphine	Demerol (Pethidine)	Amidone (Physeptone)
United States ..	2,250	8,000	—
United Kingdom ..	1,212	500	250
France ..	370	300	—

On the ground that the use of the new narcotics presents risks of addiction as serious as those attending the use of morphine, the Board hopes that they may be subjected to international control as speedily as possible. The application of D.D. restrictions to pethidine and Physeptone in Britain thus anticipates wider control.

A PHARMACIST'S ANTHOLOGY

LIKE all miners, he [Morel] was a great lover of medicines, which, strangely enough, he would often pay for himself. "You mun get me a drop o' laxy vitral," he said. "It's a winder as we canna ha'e a sup i' th' ouse." So Mrs. Morel bought him elixir of vitriol, his favourite first medicine. And he made himself a jug of wormwood tea. He had hanging in the attic great bunches of dried herbs: wormwood, rue, horehound, elder-flowers, parsley-purt, marshmallow, hyssop, dandelion, and centaury. Usually there was a jug of one or other decoction standing on the hob, from which he drank largely. "Grand!" he said, smacking his lips after wormwood. "Grand!" And he exhorted the children to try . . . But they were not to be tempted. This time, however, neither pills nor vitriol nor all his herbs would shift the "nasty peens in his head." He was sickening for an attack of an inflammation of the brain. — *From "Sons and Lovers," by D. H. Lawrence.*



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other Chemists' Societies in the Empire.

L. CLII SEPTEMBER 3, 1949 No. 3628

Diamorphine as a World Problem

NOTEWORTHY feature of the Report of
the Permanent Central Opium Board on
narcotic statistics for 1947 and its work in
1948 has been the concern expressed in it
about the present use of diacetylmorphine
and the problems raised thereby in medical
practice. The Drug Supervisory Body is
so interested (from the point of view of
statistics) and joins with the Board in re-
ferring to the World Health Organisation
its unanimous conclusion on "the danger-
ous situation which is being created by an
increasing use of the use of this drug
in certain countries" (see p. 310). The
Report points out that "it is not for the
Board or the Supervisory Body to attempt
to advise in what cases diacetylmorphine
should be retained or whether its use
should be abolished altogether." It was
the urgency of the problem that led to a
conference being convened with the ob-
ject of adopting a single convention re-
placing the existing Conventions on
Narcotic Drugs. At the present it is a
matter for specialised medical opinion,
but general conclusions reported gain
importance from the fact that the Board
has four medical members who are special-
ists in the matter; two of them were
appointed by the W.H.O.

The conclusions of the two bodies are
summarised below because they will un-
doubtedly form the basis of negotiations
for imposing additional limitations upon
the use of diamorphine in medicine:—

(a) The recommendation of the 1931
Geneva Conference to restrict the

use of diacetylmorphine with a view
to its eventual abolition has not in
all cases produced the desired result,
the present trend in some countries
being diametrically opposed thereto.

- (b) There is too great a divergence be-
tween the medical practice of a small
group of countries and that of the
rest of the world. Nevertheless the
consensus of opinion recognises the
peculiarly dangerous power and swift-
ness of diacetylmorphine to cause
addiction.
- (c) There may be divergence of medical
opinion on discontinuance of the
drug on or its retention in limited
cases. However, it is obviously being
prescribed in many cases in which
enlightened medical opinion would
condemn its use, in view of the risk
of addiction and the availability of
other less dangerous drugs.
- (d) The dangers attendant upon the use
of diacetylmorphine greatly outweigh
the financial advantage, if any, of less
cost to secure the same therapeutic
effect.
- (e) It is not for the Board or the Super-
visory Body to attempt to advise in
what class of cases the drug should
be retained or whether its use be
abolished altogether.

Countries Affected

Statistics show that, out of seventy
countries and ninety-three colonies, terri-
tories, etc., in the world, the problem
affects only metropolitan countries. In only
twenty-two countries did the annual con-
sumption exceed 1 kilo in 1946 or 1947
and, of these, eleven consumed more than
1 kilo per million inhabitants. The stric-
tures relate to five countries (see p. 310
and Table 1, p. 310) and in particular
concern the unjustifiably heavy consump-
tion of diamorphine in Finland, though
the Report also calls attention to the need
for reviewing the requirements of Italy,
New Zealand, Sweden, and Australia.
Despite the fact that Article 24 of the 1925
Geneva Convention provides for discon-
tinuing exports to countries that consume
excessive quantities of substances covered
by Conventions, there has been no sign of

applying such "sanctions." Apparently the difficulty is to determine what constitutes an "abnormal" consumption. In this connection the U.K. consumption approximated to 2 kilos per million inhabitants and increased from 1.1 kilo in 1936 to 1.99 kilo per million in 1947. The strict control applied in this country and the fact that it has resulted in a complete absence of illicit production support the view that a consumption of that order might be regarded as a reasonable standard. Nevertheless the feeling is inescapable that the essential therapeutic applications of narcotics are being submerged in a flood of figures from which it is impossible to extract the data leading to estimates of "rational" requirements.

In 1936, eucodal and Dicodid were not manufactured in Great Britain. In 1947, the absence of supplies from Germany of these drugs, which were in small, but essential, world demand, was overcome by British makers' production. In general, manufacturing countries comply with the Conventions as far as possible by manufacturing their own diamorphine requirements, but non-producing countries must import, and thus invite explanations for consumption in excess of 2 kilos per million inhabitants. Despite the disclaimers, the report of the Permanent Central Opium Board discloses bias in favour of full prohibition of diamorphine. It calls attention to the fact that there is an "*a priori* case for world abolition," but does not mention the complete success of control in Great Britain.

Rent Control Under the 1949 Act—3

PREVIOUS articles in this series gave an outline of the Landlord and Tenant (Rent Control) Act, 1949 (*C. & D.*, July 23, p. 113) and the altered conditions on the charging of premiums (*C. & D.*, August 6, p. 178). This article deals with the effect of the 1949 Act where accommodation is shared. If a tenant trader who lives above his shop shares any of the living accommodation with the landlord or with other tenants, he will now be entitled to statutory protection. The nature of this protection will depend, however, on

whether the landlord himself is a co-sharer of the accommodation with the tenant. If he is, the tenant will be in the same position as a tenant whose rent is inclusive of use of furniture or services. Accordingly, he will have to look to the Furnishings Houses (Rent Control) Act of 1946 for protection. We will consider the position under the 1949 Act later in the light of the amendments made to that Act by the 1949 Act. If, on the other hand, the tenant shares any of the living accommodation with other tenants, but not with the landlord, then he will enjoy the full protection of the Rent Acts. Those Acts are applied to a tenancy, with certain modifications.

Formerly, of course, a tenancy under which there was a sharing of living accommodation with any person whatsoever, whether the landlord or not, deprived the tenant of all protection. By decisions some four years ago, the Court of Appeal gave the very unexpected ruling that, under such a tenancy, the Rent Acts could apply at all. The tenant accordingly enjoyed no protection whatsoever, but this has all been changed by the 1949 Act.

Modifications of the Rent Acts

It is desirable to examine some of the modifications of the Rent Acts in relation to tenancies under which the tenant shares dwelling accommodation with persons other than the landlord. And here, perhaps, it should be explained that dwelling accommodation would consist of any living room, including a kitchen, but it would not include a bathroom or a lavatory, a shed, or a garage, or any other accommodation which could not be described as "living accommodation." If, therefore, there is a sharing of accommodation, such as a bathroom or a lavatory, the tenant's position would not be affected at all, and he would not thereby be prevented from enjoying the full and normal benefits of the Rent Acts, as regards the amount of rent payable, and as regards security against eviction. Such a tenancy accordingly is not affected at all by the Act of 1949. Where there is a sharing with persons other than a landlord, the question of whether there has been an increase of rent may arise, if there has been an

change of the circumstances in relation to shared accommodation, that is to say, there has been either any increase of, or diminution in, the right of the tenant to the shared accommodation, or any improvement or worsening of the accommodation. Thus, for example, it may happen that the tenant may now be required to share the "shared" accommodation with additional persons, or again, he might be deprived of some of the amenities of the shared accommodation.

Any change of circumstances of the kind referred to will be regarded as constituting an alteration of rent, but if, as a result of the change, the position of the tenant is not less favourable than it was previously, the rent will not be regarded as having been increased; should it be less favourable, then the rent will be regarded as having been unlawfully increased by an amount which the Court will determine, and the tenant will become entitled to recover such excess. Nor may the landlord vary or terminate the tenant's right to the shared living accommodation, and any agreement which confers any such power on the landlord will be of no effect. However, the landlord can only get possession of the shared accommodation (whether living or otherwise), if he is entitled to possession of the other separate accommodation as well.

But the landlord is entitled to apply to the Court to terminate the tenant's right to use the whole or any part of the shared accommodation, other than living accommodation, or to modify his rights in respect of any part of the shared accommodation, whether living or otherwise.

As regards tenancies at rents inclusive of the use of furniture or of services, and tenancies under which living accommodation is shared with the landlord, all such tenancies will come within the Furnished Houses (Rent Control) Act of 1946 as amended by the 1949 Act. The principal amendment is that which confers a greater measure of security against eviction on the tenant. Previously a tenant who applied to the Rent Tribunal automatically became entitled to continue in possession of the premises for a further three months unless the Tribunal otherwise directed. Under the

1949 Act, however, such tenants will now be entitled in general to make repeated application for successive continuations of their tenancies, so long as the application is made before each extended tenancy has come to an end. This right, however, will be lost if the Tribunal should at any time direct that the maximum period (i.e., three months) of security of tenure should be cut down, or if they should at any time refuse to grant the tenant an extension of his tenancy.

Goethe's Contacts with Pharmacy

ON the bicentenary of the birth of Goethe, an event commemorated during the past few days, it is of interest to recall his contacts with pharmacy. These contacts have just been described by Dr. George Urdang, Director of the American Institute of the History of Pharmacy, Madison, Wisconsin, in a scholarly monograph entitled "Goethe and Pharmacy." They arose not so much from his official position in the Grand Duchy of Saxony-Weimar as from his lifelong curiosity in things of the intellect. The number of names assembled in this handsomely produced booklet is impressive, and gives English-speaking pharmacists an idea of the nature and volume of scientific research in progress in Germany during the years 1749-1832. Only a few of these names—for instance, that of Sertürner, the discoverer of morphine—were hitherto known outside a small circle of experts,

For British readers the pages of most immediate appeal are those relating to the poet's appreciation of and correspondence with Luke Howard, F.R.S., founder of Howards & Sons, Ltd., of Ilford. It was Howard's essay on clouds, published in 1803, which when Goethe's attention was drawn to it led to correspondence with the English chemist and eventually to the writing of two poems headed "Howard's Ehrengedächtnis" (Tribute to Howard). "In the one," Dr. Urdang writes, "he praised Howard's merits. In the other he gave poetical illustrations to each of Howard's four groups of modifications of clouds." A third poem mentioned the same correspondent with approval. Chemistry, botany and physics were among sub-

jects in the investigation of which Goethe was helped by pharmacists. His relations with the profession were, as his diaries and other records show, lasting and cordial. The information he acquired in these contacts was of value both as material for his philosophic thinking and for his official work. In 1822 he was elected an honorary member of the Pharmaceutical Association for Northern Germany; and it was through his influence that the University of Jena conferred on Sertürner an honorary doctorate. Pharmacy remembers with sincere satisfaction the esteem shown for several of its exponents by a world-renowned genius.

A New Export Weapon

MUCH of the success of the country's production and export drives depends on efficient packaging, and recently the Packaging Standards Committee and its technical committees have been engaged in revising the British Standard Packaging Code. The second edition, or at least earlier parts of it, appeared on September 1 (see p. 309). The revised Code is directed to the export drive rather than to Forces but it is still aimed at avoiding preventable losses of any kind. British production machine cannot afford replacement of goods through poor packaging.

PROMISING LAVENDER CROPS

THE year's drought, which has caused much concern to farmers and market gardeners throughout Britain, has not affected adversely the Hertfordshire lavender cultivations. In the Hitchin locality (where the

claim is made that lavender was first planted in England in 1568) the crops have been outstanding. Sightings have been numerous. The lavender plantation at Lucas Lane, Hitchin, is managed

by Miss V. E. L. B.Pharm., Ph.C., proprietor of Perks & Llewellyn, 91 High Street, Hitchin. (It was the Perks family which in 1873 began the commercial growing of lavender at Hitchin.) The firm are distillers of lavender oil for their toilet soap and lavender water.

The lavender fields of Ransom & Sons, Ltd., 101 High Street, Hitchin, are at Mondley Bury farm in the same locality. There the crop is excellent and the yield of oil promises to be high.



ABOVE:

Harvesting lavender at the Lucas Lane, Hitchin, fields of Perks & Llewellyn, High Street, Hitchin.

AT RIGHT:

Harvesting began recently on about 25 acres of lavender at a farm near Hitchin. The picture shows cutting in progress. The crop, the property of Wm. Ransom & Son, Ltd., was good, and so far the yield has been about 1 lb. of oil to 1 cwt. of lavender.



RESEARCH IN THE COLONIES

The fourth annual report of the Colonial Medical Research Committee forms a section of the Colonial Research Council's report for 1948-49, recently published. Regarding the widening field of medical research being undertaken in the Colonies, it shows, among other things, that much work has been undertaken during the year on the use of proguanil (Paludrine) in prophylaxis and treatment of malaria. The malaria subcommittee takes the view that, while the drug alone may produce cure of *falciparum* malaria in some cases, it cannot always be relied upon to do so. The recommendation is made, therefore, that a "reinforced" method (i.e., using mepacrine or quinine in conjunction with proguanil) should be tried so as to obtain information on which to base future practice.

Treatment of Filariasis

In certain cases of filariasis, treatment with Hetrazan caused rapid disappearance of the infecting organism, but in a proportion of the cases a few organisms persisted. The investigations are being pursued. Observations are also continuing on the use, in the treatment of schistosomiasis, of Miracil D. Certain amino acridines had been found to have an action similar to Miracil D, though they were rapidly excreted and it appeared unlikely that an adequate concentration could be maintained. The Virus Institutes in Nigeria and Uganda continue to be primarily concerned with a study of yellow fever. By the use of virus monkeys stationed as sentinels in the canopy of the uninhabited Bwamba forest has been established during the year that the mosquito *Aedes africanus* was the vector of prime importance in an outbreak of yellow fever in Bwamba. Field investigations in Malaya on the effect of chloromycetin on scrub-typhus are described. "The infallibility of the drug," the report states, "made it possible to expose deliberately groups of volunteers in known infected areas of the countryside—a procedure hitherto impracticable because of the considerable death rate of the untreated disease." The temperatures of typhoid fever patients treated with the drug fell to normal within 24 hours. Where relapses occurred, the cases responded to a second course of the drug. By coincidence, it was found that Chloromycetin was effective also against gonorrhoeal urethritis.

The Colonial Products Research Council, in its sixth annual report, describes a number of plants of possible medicinal use. Of these, *Hydrocotyle asiatica*, a plant reported in France to be of possible value in the treatment of leprosy, has been examined for constituents. From the Ceylon variety two triterpene acids, centoic and centellic, have been isolated. From the Assam variety two triterpene acids have also been separated, one closely related to centoic and centellic but giving a crystalline methyl ester and containing an α -glycol system; the second acid was present in combination with an unidentified polysaccharide system (as was centellic acid in the Ceylon plant). Other work has shown that the bark of *Mitragyna inermis* contains the alkaloid rhynchophylline, though in a small amount. Another species, *Mitragyna subrostipulacea*, contains in the bark and leaves about 5 gm. per kilo of alkaloid (mitraphylline). Workers at Cambridge and Leeds have continued their investigations of the germination factor of *Striga hermonthica*. It has been found that the keto-pentose, *d*-xyloketose, promotes germination at an even greater dilution than the natural factor—a significant germination having been observed, for example, at a concentration of $1/10^{10}$. Like the natural factor, the activity of *d*-xyloketose deteriorates rapidly on keeping and it is normally inactive four to five days after its isolation. The causes of this inactivation are being studied. Workers at King's College, London, have commenced work aimed at preparing pyrethrins to serve as standards for the possible ultra-violet and infra-red spectroscopic assays of pyrethrum flowers.

Research on Gums

In research on gums, the gum from *Sterculia setigera* was found to resemble in properties gum tragacanth and gum karaya. The gum is a partially acetylated polysaccharide, and on hydrolysis gives rise to the sugars *l*-rhamnose, *d*-galactose, *d*-galacturonic acid and *d*-tagatose. The natural occurrence of *d*-tagatose has not previously been reported. A preliminary examination of *Khaya senegalensis* gum has shown that it resembles gum acacia. New uses for clove oil are being sought.

Copies of the Report may be obtained from H.M. Stationery Office, Kingsway, London, W.C.2, price 2s. 6d.

A TRADE JUBILEE

GLAXO Laboratories, Ltd., Greenford, Middlesex, celebrated on August 26 the silver jubilee of Ostelin, the first concentrated vitamin D preparation to be made available to the medical profession. It was on August 26, 1924, that the first order for Ostelin was received from a chemist in Batley, Yorks. The product (a concentrate of vitamin D) was first made from cod-liver oil. The process was somewhat laborious and involved large volumes of starting materials. The extract from several hundred gallons of fish oil was less than a pint in volume, and the extracted fish oil, after removal of alcohol, was returned to the suppliers for tannery and other non-medicinal purposes. The first Ostelin was made in 1924 by Mr. G. P. Dodds (still with the company and now a departmental manager in charge of foods) at Messrs. Glaxo's original premises in Osnaburgh Street, London. Shortly afterwards a small-scale plant was erected at an oil refinery at Thameshaven, Essex. Later a considerably larger plant was installed on a quayside in Albert Docks, Aberdeen, so that it became possible for trawlers to draw up alongside and off-load fish direct into the factory.

Mr. Dodds became manager at Aberdeen, and he had with him as chemical assistant Mr. E. W. Pates and as process worker Mr. A. Rew (both of whom are still doing good work for the company). Every week at the Aberdeen plant about twelve tons of fish oil were extracted, and that in turn necessitated the distillation, within the same period, of over twenty-two tons of industrial alcohol. Shortly after the Aberdeen business had opened, the general strike of 1926 intervened and caused a crisis in the newly developed business. All normal means of transport between Aberdeen and London came to an end, and the feeling of isolation was brought home forcibly at that time, when it was discovered that a valuable container of Ostelin extract, badly needed in London for the maintenance of the newly started pharmaceutical business, could not be dispatched. The day was saved however, when it was learned that a trawler intended leaving Aberdeen in the dead of night for the journey to London. The skipper took the container of Ostelin—which, though small, was worth many hundreds of pounds—into his cabin, and he was able to hand it over on arrival.

SURGICAL DRESSINGS PRICE

Concluded from C. & D., August 27; p. 274.

ABSORBENT COTTON WOOL, B.P.C.

	per lb.	per
16-oz. packet	3s. 5½d.	41s.
8-oz. packet	3s. 7½d.	21s.
6-oz. packet	3s. 9d.	16s.
4-oz. packet	3s. 10½d.	11s.
3-oz. packet	3s. 11½d.	8s.
2-oz. packet	4s. 1½d.	6s.
1-oz. packet	4s. 7d.	3s.
½-oz. packet	5s. 3½d.	2s.

ABSORBENT COTTON WOOL, hospital quality.

16-oz. packet	2s. 7½d.	31s.
8-oz. packet	2s. 9½d.	16s.
6-oz. packet	2s. 11d.	13s.
4-oz. packet	3s. 0½d.	9s.
3-oz. packet	3s. 1½d.	7s.
2-oz. packet	3s. 3½d.	4s.
1-oz. packet	3s. 9d.	2s.
½-oz. packet	4s. 5½d.	1s.

GREY (Unbleached) WOOL.

16-oz. packet (not interleaved) ...	1s. 1d.
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BORIC WOOL, B.P.C.

4-oz. packet	12s.
2-oz. packet	6s. 1d.
1-oz. packet	3s.

ABSORBENT LINT, hospital quality.

16-oz. packet	5s. 1d.
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CELLULOSE WADDING, B.P.C.

1-lb. packet	1s. 2d.
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CELLULOSE TISSUE, B.P.C.

1-lb. packet	2s. 2d.
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ABSORBENT GAUZE, B.P.C., 36 in.

	per d
	pkts.

Plain sterilised.

6-yd. packet	23s. 1d.
3-yd. packet	12s. 6d.
1-yd. packet	5s. 1d.
½-yd. packet	3s. 1d.
¼-yd. packet	2s. 1d.

Boric Acid, B.P.C.

½-yd. packet	3s. 0d.
¼-yd. packet	2s. 1d.

Mercury and Zinc Cyanide, B.P.C.

½-yd. packet	3s. 2d.
¼-yd. packet	2s. 1d.

Iodoform, 5 per cent., B.P.C.

½-yd. packet	3s. 8d.
¼-yd. packet	2s. 5d.

Picric, B.P.C.

½-yd. packet	3s. 6d.
¼-yd. packet	2s. 4d.

ABSORBENT GAUZE, hospital quality, 36 in.

6-yd. wrapped packet ...	19s. 5d. per 100 yd
	or 14s. 0d. doz. pkts.
6-yd. unwrapped rolls ...	19s. 1d. per 100 yd
	or 13s. 9d. per doz. rolls
3-yd. unwrapped rolls ...	19s. 8d. per 100 yd

Cotton Wool, ½-oz., sterilised.

In packets	26s. 11d.
In cartons	29s. 1d.

EXAMINATION RESULTS

The following candidates satisfied the examination in the Chemist and Druggist Qualifying examination held in Scotland in July:—

Abraham, Joyce, Bedlington
 Allan, George W., Edinburgh
 Arnold, Margaret H., Thornliebank
 Ashurst, Jack, Wigan
 Bagshaw, Nora, Nottingham
 Begbie, Mary, Edinburgh
 Berry, Brian E., Nelson
 Best, Philip G., Liverpool
 Bouchier, Neville G., Bridgewater
 Bowman-Jones, Ralph H., Jarrow
 Broadley, Edward, Leeds
 Brown, John M., Dunfermline
 Brown, Leslie H., Chesterton
 Buchanan, John, Aberdeen
 Bull, Ada M., Carnforth
 Buttlings, Geoffrey, Chester
 Campbell, John S., Airdrie
 Charlton, Barbara E., Liverpool
 Coates, Barbara, Leicester
 Coburn, Adam, Glasgow
 Cohen, Muriel G., Leeds
 Collins, William J., Wemyss Bay
 Corless, Bernard, Blackburn
 Corless, Violet A., Kendal
 Cumming, Charles C., Edinburgh
 Cunliffe, John, Haydock
 Dewis, Frederick G., Leicester
 Dickie, Isabella R., Edinburgh
 Donald, George W., Liverpool
 Driver, Margaret, Liverpool
 Dry, Doreen, Bradford
 Elder, George, Edinburgh
 Elkins, John A., Musselburgh
 Ellis, Wilfred J. L., Bristol
 Farthing, Maureen J., Middlesbrough
 Findlay, Elizabeth B. G., Leeds
 Fitton, Joan, Edinburgh
 Gahlinger, Jeannine S., Dundee
 Garrett, James, Burnley
 Gibson, Arthur, Bradford
 Goldstein, Reuben, Middlesbrough
 Gow, Angus, Aberdeen
 Graham, Audrey M. G., Glasgow
 Graham, Kenneth, Sheffield
 Green, Patricia M., Birkenhead
 Harbottle, Edith P., Edinburgh
 Harris, Norman D., London
 Haynes, Margaret E., Southport
 Hendry, James R., Aberdeen
 Hesk, Frederick, Hull
 Higgins, Desmond G., Bradford
 Holdsworth, Clifford, Colne

Holroyd, Derek, Bradford
 Hutchinson, Raymond, York
 Hyde, Harry, Leeds
 Jackson, Harold O., Sunderland
 Johnston, Ian R., Edinburgh
 Jones, Eric L., Chester
 Jones, Mair C., Liverpool
 Jones, Wilfred, B., Festiniog
 Jordison, William, South Shields
 Kelly, Thomas C., Glasgow
 Kent, Maurice, Leeds
 Kerry, Cecil, Rotherham
 Knight, Eric H. E., Leicester
 Lees, Robert E., Aberdeen
 Lonsdale, Leslie, Bradford
 McArthur, Margaret J. R., Carnoustie
 MacAuslan, Peter, Hamilton
 Macdonald, Ellen G., Wishaw
 McGovern, George W., Edinburgh
 Main, James, Portknockie
 Mappin, Samuel A., Leicester
 Mason, John T. B., South Shields
 Mitchell, George J. H., Gateshead
 Moir, Anna G., Glasgow
 Parker, Vera, Bradford
 Payne, John, Nottingham
 Pickles, Connie, Nelson
 Reid, James C., Cupar, Fife
 Rigby, Ernest, Bradford
 Roberts, William D., Liverpool
 Sams, Clive, Ferryhill
 Scott, David G., Edinburgh
 Sharp, Constance I., Juniper Green
 Shiels, Christina E., Edinburgh
 Smith, May H., Morecambe
 Smith, Patricia, Nottingham
 Stantiford, William R. E., Falkirk
 Sturgess, Raymond, Leicester
 Sydney, Douglas, Edinburgh
 Taylor, Duncan, Coatbridge
 Thomas, Brian, Hebden Bridge
 Thornber, James C., Liverpool
 Tillman, Henry J., London
 Turner, Jean C., Bingley
 Urquhart, Duncan R., Aberdeen
 Vickers, Frederick B., Sheffield
 Vickers, Joan A., Bishop Auckland
 Wainwright, William E., Stone
 Weightman, Bryan A., Bradford
 White, James H., Edinburgh
 White, John G., Ayr
 Whiting, John D., Nottingham
 Wilby, Joan M., Birkenhead
 Wilcock, Joyce, Bradford
 Woolhouse, Mary M., Chester
 Woolley, Edward, Durham
 Yates, Peter D., Sheffield

IRISH PHARMACISTS ON EDUCATIONAL PLANS

IN view of the interest aroused in Southern Ireland by the proposed new scheme of education of the Pharmaceutical Society of Ireland and its proposal to dispense with the Registered Druggist qualification, leading pharmacists — both of the older and younger generation—were invited to give their comments. The symposium of viewpoints given below represents a typical cross-section of the profession.

MR. R. D. CLARKE, M.P.S.I. (managing director, T. R. Lester, Ltd., Cork), writes: "I welcome the proposed changes in pharmaceutical education and apprenticeship as being a step in the right direction, and one that should ultimately prove of great benefit to the profession. I wonder, however, if the course could be made a University course, as I feel that there are in Cork sufficient people entering the profession to warrant its being made a second centre. I agree with the suggestions affecting the Registered Druggist examinations. The information to hand does not appear to me clear as to whether it is intended to discontinue the Assistants' examination, and I would be sorry to see this course adopted, as I feel that the Assistants' examination does fill a want in the profession."

MR. J. K. WHELEHAN, M.P.S.I., Mullingar (a recent president of the Pharmaceutical Society) gives his views as follows:—"I hasten to pass to the Council my congratulations on the formulation of a very sound scheme. For years now it has become increasingly obvious that something would have to be done radically to alter not alone the system of inculcation, but also the syllabus in general, if our graduates were to be even reasonably well equipped to deal with problems arising in the day to day practice of pharmacy. The Council has wisely drawn up a strategically sound plan that permits of adjustments here and there within its framework. At this stage it would be premature to expect a more detailed account of the course it is proposed to cover in each respective year, but when the course comes to be formulated in detail I am sure the Council will seek the advice of its own College and board of examiners. Professor Timoney, who has been seconded to the National University over the past three years, and who has distinguished himself so brilliantly will, I feel sure, have many suggestions to make. It has struck

me (and I am sure the Council also has this in mind) that the science year may be arranged by arrangement with the Senate of the National University of Ireland, be made interchangeable with the First Science examination of that body, thereby opening up an infinitely wider scope for our graduates, and permitting of a student taking his B.Sc. prior to his final professional examination in pharmacy, or alternatively after qualification. The scheme tacitly makes provision for an even degree in pharmacy open to Licentiates only. The immediate advantages of such a course to students registering under it are so obvious as hardly to merit mention. The course is being shortened in effect to five years for the average student, instead of the present average of seven. For the first time in the recent history of the Society its professors are being afforded a fair quota of time for inculcating a fundamental minimum in their respective subjects.

Call for Research

I should like to see provision be made for a Fellowship of the Society open only to students with the Licentiate and a degree in pharmacy. That should provide Irish pharmacy with a corps of young pharmacists academically fitted to carry on research work on the Irish flora, a branch of research that has been almost entirely neglected. Since the Society now proposes rightly to allocate a full three years' academic course as a necessary minimum for aspirants to the primary qualification, an onus devolves upon it to ensure, so far as possible, that its Licentiates are enabled to procure an adequate remuneration from professional work alone. That is not so at present. A step in the right direction could be made by elaborating a schedule of fees, that would require negotiation with the Irish Drug Association, which would, I am sure, be glad to relinquish the fixing of professional fees to the Society, within whose scope the function logically falls. Fees presently enunciated are inadequate, and may rightly be said that few, if any, Licentiates could live on income solely derived from professional work. The question should be tackled at once, I trust the foregoing will not be taken as criticism of the excellent work which the Irish Drug Association has been doing in

maintenance, etc., but a moral responsibility rests upon the Society to ensure to its Licentiates a fair return for the standards reached under the educational requirements. In the pharmacy year I it will be found possible to include a course in ethics for young graduates (although I feel that the two full years spent in college together will bear great fruit in the building up of *esprit-de-corps*, which is at the heart of ethical considerations). I should also like to see featured in pharmaceutical chemistry (applied), together with toxicology and pharmacology. Practitioners nowadays expect of the pharmacist a knowledge more detailed, if more practical, than their own in the latter two subjects. In the vexed Registered Druggist question one may wonder if it is necessary, or even advisable, to dispense the qualification. If it is deemed necessary, it would have to be done along the lines suggested in the new proposals, which to my mind are sufficiently general for Registered Druggists.

Broadly, I think every progressive-minded pharmacist may welcome the proposals as a laudable effort at equipping the Irish pharmacists with an effective armamentarium for their professional careers, and as providing a good basis for the establishment of a new concept of the pharmacist's place in the life of the nation. Owing to pressure on space, Mr. O'Grady's statement could not be given in full.—EDITOR].

MR. THOMAS J. SMITH, M.P.S.I. (a former lecturer in pharmacy and examiner for the Society, and himself a gold-medal licentiate), observed: "The scheme is a very courageous step on the part of the Council. The idea of three-years' apprenticeship and two-years' full course is sound, and should produce much better-trained pharmacists. The present system of having examining entirely divorced from teaching should, in my view, be abolished, and the University system of having internal and external examiners adopted instead. After completing the proposed course any conscientious student of average ability should have as much prospect of qualifying as, say, a student of medicine or other professional subject. It would never be possible for the idea to gain currency that the Licence examination is used as a dam to prevent the flow of new entrants into the profession. It is satisfactory that at last the out-of-date R.D. qualification is being dealt with."

The viewpoint of the younger generation is expressed by Mr. JOHN F. O'GRADY (president, Irish Pharmaceutical Students' Association). Mr. O'Grady says: "We on the Council of the Irish Pharmaceutical Students' Association welcome the 'White Paper' just issued on pharmaceutical education as a first step forward, but we hope it will not be the last. Pharmacy students everywhere will be glad to see the end of the part-time lecture system, and they will now be assured of ample time for study. I regret that the evils of the present apprenticeship system will persist. I advocate that only pharmacies approved by the Council of the Pharmaceutical Society as suitable for the training of students should be allowed to take apprentices, and that the apprentice should be properly indentured, and required to spend so many hours per week at the dispensing counter. He should take notes each day on the pharmaceutical operations he has finished, and the notes should be initialled by the apprentice-master and available to an inspector of the Society. The number of apprentices the training of which a pharmacist can adequately supervise should be specified. A graduate of the Society's College should be in a position to take up a pharmaceutical appointment in almost any country, but the proposed curriculum may not place him in that category. Provision should be made for adequate courses in physiology, pharmacology and bacteriology. I am not in agreement with the proposal to drop chemistry after the first science year. The break in full-time study by the three-year apprenticeship will, in my view, react badly on the student. In Switzerland, where a similar situation has arisen, the system is much criticised and it is rumoured will shortly be abolished. The scheme when finally approved should not merely bring the curriculum up to present-day requirements, but should as far as possible anticipate the requirements of the next ten years."

MR. ARTHUR G. ALLSHIRE, M.P.S.I., one of the youngest proprietor pharmacists in Ireland, comments: "The qualification of Registered Druggist would undoubtedly be better terminated, but why not let it die peacefully with the passing of the present R.D.s? Is it not rather drastic to expect a middle-aged man to return after thirty or forty years to his textbooks? And has not the M.P.S.I., who may have a successful pharmacy in the same street

as an R.D., just cause for concern on seeing his neighbour affixing in bold letters the title 'Dispensing Chemist and Druggist' to his shop fascia? At last we are to have a full-time course in College instead of the previous 'cram,' but why must the apprenticeship be as long as three years? The existing system was devised at a time when a student learned most of his craft in a pharmacy. Retail pharmacy in the good old days included the preparation of almost everything required. In few pharmacies in Eire today will the apprentice during his three years be fully occupied in training for his future career. The Society's prime motive in altering the present system is that repeated attempts to decrease the annual output of Licentiate have failed, resulting in redundant pharmacies particularly in the unexpanding country towns. Why not tackle the root cause of the trouble? In medicine, engineering, etc., positions are available abroad to successful candidates, but in pharmacy that is not so because our training is rather below the standards required in many other parts of the world. Why not therefore raise the standard here to that of our neighbours?

The Memorandum suggests that the time taken to qualify may be reduced from an average of seven to five years, but how can this be achieved if the present bottle-neck (caused by classes being inadequate to meet the demand) continues? Since some 50 per cent. of chemists in rural areas depend to a great extent upon their veterinary business, surely rural pharmacists should be considered by the provision of a pharmaceutical training to meet veterinary needs."

LIEUTENANT SEAMUS FOX (General Military Hospital, Curragh Camp) writes: "For my part I welcome the new scheme, which will, if adopted, represent the fulfilment of reforms advocated by some of us associated with the Students' Representative Council in our student days. I refer particularly to the institution of a full-time lecture system, which will enable the student to devote more time to study, and the inclusion of forensic pharmacy as a separate subject in the science and pharmacy courses. A student cannot be expected to work all day in a pharmacy and at the same time devote sufficient attention to taking up lectures and studying. The results of the Licence examination are an indication of that fact. Forensic pharmacy has always constituted an

important part of the examination, but to the present time given to it during the lecture courses has been too limited. I presume that an instruction course for the B.P. will be given under the 'theory of pharmacy' and 'materia medica' portions of the pharmacy course. Under the proposed system it will take at least a year longer to qualify than in England owing to the period of apprenticeship in pharmacy here being longer. Whether it would be wise to shorten the apprenticeship to two years is debatable. In addition to the changes contemplated I think that it would be desirable that (1) Articles of indenture should be entered into between pharmacist and student, and apprenticeship should be carried out on conditions approved by the Council. Pharmacology, and possibly physiology should be included, for a Pharmaceutical Chemist should have a knowledge of the action of drugs on the human body. It is to be hoped that the present 'total' system in the marking of the Licence examination will be abolished, as it should be sufficient to obtain a certain percentage in each subject to merit a pass. Changes are better made by easy stages but the Council are to be congratulated on preparing the proposals, which, if implemented, will ensure that Irish pharmacy is capable of adapting itself to the changing times, and able to keep abreast of modern developments in the medical and scientific worlds. Finally, it is desirable that further post-graduate courses should be arranged in aseptic dispensing pharmacology, etc."



BADGE OF OFFICE.—Mr. J. L. Dawson Cook (president, Blackpool Branch, Pharmaceutical Society) receives from Mrs. J. L. Dawson Cook (chairman Ladies' Section), the new presidential badge presented by the Ladies' Committee. In centre is Mr. A. Greenwood (Branch secretary).

STOCK EXCHANGE PRICES

Quotations are the average for the days stated.

Unit unless otherwise stated		Aug. 2	Aug. 30	£1 unit unless otherwise stated		Aug. 2	Aug. 30
	s. d.	s. d.		s. d.	s. d.		
Light & Wilson, ord., 5s. ...	28 3	27 9	Ilford, ord. stock, 5s. ...	20 7½	23 1½		
A & Hanburys, pref. ord. cum. ...	30 0	30 0	Imperial Chemical Industries, ord. cum. pref. stock ...	42 3	43 6		
er Chemical, ord., 2s. ...	5 7½	4 3	Imperial Chemical Industries, 7% cum. pref. stock ...	31 0	31 3		
er Chemical, 5% cum. pref. ...	23 9	23 3	International Sponge Importers, ord. stock, 5s. ...	2 9	2 9		
ts Pharmacies, ord. stock, 5s. ...	5 0	5 0	Kent, G. B., & Sons, 5% cum. ptgp. pref., 12s. 6d. ...	13 9	13 0		
o, ord. stock, 5s. ...	21 3	21 3	Kershaw, A., & Sons, ord., 1s. ...	1 1½	1 0		
ham Group, defd., 2s. 6d. ...	12 0	13 1½	Kleemann, O. & M., ord. stock, 1s. ...	10 3	10 9		
ham Maclean Holdings 4% cum. pref. ...	20 7½	19 3	Laporte Chemicals, ord. stock ...	21 3	20 9		
le, Roberts, ord., 5s. ...	30 0	29 6	Lever Brothers & Unilever, ord. Lewis & Burrows, ord. stock ...	26 3	26 0		
es (Eastern) "A" pfd. 6% cum. (Western) "A" pfd. ord. % non-cum. ...	28 6	28 3	Lewis & Peat, ord., 1s. ...	1 3	10½		
Pure Drug, ord., 5s. ...	33 6	33 3	Liebig's Extract of Meat, ord., £5 295 0	310 0			
Consolid., defd. ord. stock ...	48 0	49 0	Macleans, 4% red. cum. pref. ...	20 0	19 0		
sh Alkaloids, ord., 1s. ...	50 0	53 0	Mellin's Food, 6% cum. pref. ...	6 0	5 3		
sh Chemicals & Biologicals, % cum. red. pref. ...	4 0	4 3	Milton Antiseptic, ord., 10s. ...	20 0	19 6		
sh Drug Houses, ord., 5s. ...	20 9	18 9	Mono Containers, 5s. ...	15 0	14 6		
sh Emulsifiers, 2s. ...	7 3	7 1½	Monsanto Chemicals, ord., 5s. ...	51 3	50 0		
sh Glues & Chem., ord., 4s. ...	9 7½		Pears, A. & F., 5% deb. stock, irred. ...	125½	115½		
sh Industrial Plastics, ord., 2s. ...	5 0	4 9	Pest Control, ord., 5s. ...	8 0	8 3		
sh Optical & Prec. Eng., 5% ...	92½%	94½%	Potter & Clarke, ord., 1s. ...	2 0	2 0		
sh Oxygen Co., ord. stock ...	92 6	92 6	Reckitt & Sons, ord. stock ...	101 3	102 3		
sh Xylonite Co., ord. stock ...	65 0	70 0	Rolls Razor, pref. ord., 10s. ...	21 3	20 0		
herton & Co., ord. ...	20 0	19 9	Sangers, ord. stock, 5s. ...	29 0	28 0		
h, Boulton & Haywood, ord. ...	25 0	24 6	Sanitas Trust, ord., 10s. ...	28 6	33 0		
W. J., & Co., ord. ...	77 6	76 0	Savory & Moore, 5½% 1st red. cum. pref. stock ...	21 6	21 9		
awal, ord. ...	18 9	19 6	Sherley, A. F., & Co., 8% cum. pref. ord. ...	22 6	21 9		
per, McD. & Robertson, ord. ...	27 6	27 6	Smith & Nephew Associated Cos., ord., 4s. ...	16 0	15 3		
y & Gate, ord. stock, 1s. ...	2 3	2 6	South African Druggists, ord., 5s. ...	13 0	14 6		
y, P. B., & Co., ord. stock, 4s. ...	4 4½	4 3	Southalls (Birmingham), stock, 5s. ...	38 1½	38 9		
field, J., & Sons, 5% cum. re-pref. ...	25 0	23 9	Spa Brushes, ord., 2s. ...	3 7½	3 10½		
sons, Sons & Co., ord. stock 2s. ...	15 0	15 0	Sternol, 8% cum. ptgp. pref. ord., 10s. ...	8 9	9 0		
illers, ord. stock, 4s. ...	25 6	26 10½	Stevenson & Howell, ord. stock, 5s. ...	23 6	24 9		
arry Perfumery Co., ord., 1s. ...	3 0	3 1½	Taylor, Cash Chemists, London, 6% cum. pref. ...	26 3	25 3		
hlop Rubber Co., ord. stock ...	60 3	63 0	Taylor, Cash Chemists, Trust, 6% cum. pref. ...	25 7½	23 6		
rgen Foods Co., ord., 2s. ...	6 6	7 1½	Taylor's Drug Co., 7% "A" cum. pref. ...	31 3	32 0		
Proprietaries, 5½% cum. pref. ...	20 0	19 0	United Glass Bottle, ord. stock ...	68 9	69 6		
ryl, stock, 2s. ...	3 9	3 9	Veno Drug Co., 12% cum. pref. ord. ...	27 6	24 0		
ns Medical Supplies, ord. stock ...	37 6	33 0	Virol, ord. ...	72 6	74 4½		
ld, J. C. & J., ord., 10s. ...	26 3	25 9	Viscose Development Co., ord. stock, 5s. ...	9 0	8 6		
ns, ord. stock ...	44 0	41 0	Vitamins, 1s. ...	3 6	3 10½		
ns, 4½% cum. pref. ...	22 0	21 6	Wesley, Harold, 5s. ...	11 3	11 1½		
loway, P. H., ord., 2s. ...	3 0	3 1½	Whites (Timothy) & Taylors, ord., 5s. ...	31 3	31 6		
ette Safety Razor Co. shares (no par value) ...	\$47.50	\$49.25	Whites (Timothy) & Taylors, 7½% cum. pref. ...	33 1½	31 0		
axo Laboratories, ord. stock, 10s. ...	350 0	360 0	Wright, Layman & Umney, 7% cum. pref. ...	27 6	27 6		
axo Laboratories, 8% cum. pref. ord. stock, 10s. ...	19 0½	17 6	Yardley & Co., ord., 4s. ...	55 0	52 6		
essage, W., & Sons, 5% 1st. cum. pref. ...	25 0	23 6	Yardley & Co., 2nd pref. (cum.) ...	23 3	22 0		
eeff-Chemicals Holdings, ord., 5s. ...	11 6	11 3					
ffiths Hughes Proprietaries, ord. ...	18 9	18 4½					
ampshire, F. W., stock, 5s. ...	70 0	72 3					
irst, Brooke & Southon, ord. 4s. ...	4 6	4 7½					
orlicks, stock, 5s. ...	26 10½	27 6					
owenden, R., & Sons, 7% cum. "A" pref. ...	26 3	25 9					
ris, "A" ord. ...	36 3	37 3					

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, Aug. 31

THE recent improvement noted in the demand for PHARMACEUTICAL CHEMICALS is being sustained, both for home consumption and for export. Prices throughout this market continue very steady and any movement may well be to slightly higher rates, due to increasing costs of production. While actual business transacted in the CRUDE DRUGS markets continues no more than routine, there is a steady general inquiry, a proportion of which cannot be satisfied on account of lack of supplies on spot. The tone in the majority of products is firm with a tendency for values to move up in a number of instances. Shipment business becomes ever more difficult and is beset with obstacles which seem to make trade almost impracticable. We refer, of course, to the lack of import licences and exchange complications, with conditions changing in some respect almost daily. Isolated shipment offers of CASCARA SAGRADA at high prices are noted. A very limited supply of Portuguese ERGOT is reported to be available for shipment at high values. West African GINGER continues firm and again rather dearer. There are still no shipment offers of Matto Grosso or Minas IPECACUANHA and licences are being withheld to import from other sources. MALE FERN root could be brought in cheaper from Italy but shippers require payment in Italian currency while import licences are restricted to payment in sterling. The spot MENTHOL market continues firm for Brazilian; offers for shipment from China are noted. Chinese RHUBARB continues firm with no offers for shipment. Importers are finding it difficult to obtain firm offers of SENEGA from the source; shippers report the crop has been extremely small and prices quoted range from 6s. to 6s. 3d., c.i.f., for what may be available. The ESSENTIAL OILS markets are mostly quiet but, with a few exceptions, values of these products are well maintained with some items tending dearer. Chinese Star ANISE is firm and slightly dearer for shipment. Java CITRONELLA is very short on spot and shipment offers are reported firm.

U.S. Drug and Chemical Report

New York, August 26

No price developments of importance have been recorded on the fine chemicals market over the past few days but it is now understood that a reduction of one dollar a pound effected on anhydrous CAFFEINE ALKALOID recently did not apply to synthetically produced material. It is reported that supplies of pure crystalline VITAMIN B₁₂ have made their appearance on the market here and are available to pharma-

ceutical manufacturing firms in bottle 100 to 500 milligrams. Vitamins meeting with a good demand at the present time and there is also a substantial seasonal inquiry for such items as CRUDE and TARTARIC ACIDS, SODIUM BENZOATE and PHOTOGRAPHIC CHEMICALS. There are sufficient supplies of STREPTOMYCIN available to meet all the current domestic overseas demand and still leave some spare. In the CRUDE DRUG markets, a feature of the past few days has been report that German activity in the European market with U.S. dollars has caused a sharp advance in HENBANE leaves; article, it is stated, went up from an inside price of 30 cents to 35 cents per lb. Once again, the price trend in MENTHOL has been reversed and the material is now quoted at \$11.00 to \$11.50 per lb., when it was available at \$10.85 a week ago; demand is very small. Demand for CARNAUBA WAX is quite good though mainly for end-year shipment, and there was a two-cents a pound increase to \$1 per lb. on the inside last week. RHUBARB has shown no signs of easing from its tight supply position. The firmness of spice oils has been the feature of the ESSENTIAL OILS market and the week-end brought a sharp upward movement in GERANIUM and CITRONELLA. The former moved up from \$17.50 per lb. on the inside to \$22.50 and the latter, from \$1.65 to \$1.75 for Java material; and from 85 cents to 90 cents for the Ceylon variety. LEMON GRASS remains just as hard to get as ever, week ago though the delivery of new crop Mexican lime oil has eased a market which was quite tight only a month ago.

Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	Rate
*Alexandria ...	Piastres to £	97½—97½
Amsterdam ...	Florins to £	10.68—10.7
*Bombay ...	Shillings to rupee	1.5½—1.6½
Brussels ...	Francs to £	17.62—17.62
Copenhagen ...	Kroner to £	19.32—19.3
Dutch East Indies	Florins to £	10.68—10.7
Dutch West Indies	Florins to £	7.59—7.61
*Hong Kong ...	Shillings to \$	1.22½—1.22½
Lisbon ...	Escudos to £	102
Montreal ...	Dollars to £	4.02½—4.03½
New York ...	Dollars to £	4.02½—4.03½
Oslo ...	Kroner to £	19.98—20.02
†Paris ...	Francs to £	1.096—1.098
Rio de Janeiro ...	Cruz to £	75.4416
*Singapore ...	Shillings to \$	2.318—2.418
Stockholm ...	Kronor to £	14.47—14.50
Zurich ...	Francs to £	17.34—17.36

* Free market rates

† Forward francs 1 fr. either side par per month

Pharmaceutical Chemicals

OPINE.—Steady. Makers' rates per oz. are: ALKALOID, 41s. 3d.; 4 oz., 40s. 9d.; 1 lb., 40s. 3d. SULPHATE, 32s. 9d.; 4 oz., 32s. 2d.; 25 oz., 31s. 9d.

SMUTH SALTS.—Makers' prices per lb. (ainers in brackets) are as follows:—**ONATE.**—1-cwt. lots, 14s. 5d. (1-lb.); 1 lb., 14s. 3½d. (4-lb.); 14s. 2½d. (1-lb.); 14s. 2d. (14-lb.); 14s. 1d. (28-lb.). **ATE** is 2s. 3d. per lb. less; **SALICYLATE**, and **SUBNITRATE**, 2s. 1d. less than carbonate. **SUBGALLATE** is 1s. per lb. more carbonate.

FLORAL HYDRATE.—Current rates per lb. for the home trade are: 1-cwt. lots, 56-lb., 4s. 2d.; 28-lb., 4s. 4d.

OROCRESOL.—Pharmaceutical quality noted at 4s. per lb. in 1-cwt. drums.

ORFORM.—Makers' prices for 1-cwt. in winchesters are 3s. 2d. per lb.; 3s. 2½d. In drums, prices are 3d. and 3s. 1d. per lb., respectively.

DEINE.—Makers' rates per oz. are as follows:—ALKALOID, ½-oz., 60s. 3d.; 1-oz., 9d.; 2-oz., 56s. 3d.; 3-oz., 55s. 6d.; 55s. 3d.; HYDROCHLORIDE, ½-oz., 53s.; 50s. 6d.; 2-oz., 49s.; 3-oz., 48s. 3d.; 48s.; PHOSPHATE, ½-oz., 46s. 9d.; 44s. 3d.; 2-oz., 42s. 9d.; 3-oz., 42s.; 41s. 9d. Prices of HYDROBROMIDE IODIDE as alkalioid; and SULPHATE as ochloride.

REAM OF TARTAR.—Makers' rates for home trade are: 10 cwt. lots, 148s. cwt.; 5-10 cwt., 149s.; less than 5 cwt. more than 2 cwt., 150s.; 1-2 cwt., delivered.

EOSOTE.—B.P. quality, ex beechwood, noted at from 6s. 9d. to 7s. 6d. per lb.

PHEDRINE.—Makers' rates per oz. are as follows:—ALKALOID: 1 oz., 11s. 9d.; 1 oz., 11s. 6d.; 25 oz., 11s. 3d.; 50 oz., 100 oz., 10s. 9d. HYDROCHLORIDE and PHATE: 1 oz., 8s. 3d.; 16 oz., 8s.; 25 7s. 9d.; 50 oz., 7s. 6d.; 100 oz., 7s. 3d. ported contracts may be booked for quantities of not less than 100 oz. over six lbs. Containers: 50 oz. or more, free; 1 oz. lots carriage paid.

ODINE PREPARATIONS.—Makers' prices per lb. for the home trade are as follows:—POTASSIUM IODIDE, B.P.—1 cwt., 1d. SODIUM IODIDE, B.P.—28 lb., 1d. IODOFORM, B.P.—28 lb., powder, 7d.; crystals, 17s. 7d. RESUBLIMED IODINE, B.P.—1 cwt., 12s. 8d. Orders of 1 lb. and upwards may be made up with ported preparations at schedule rates. Packages are extra. Contracts may be booked for 1 cwt. and over of assorted preparations for delivery as required within six months with rise and fall clauses. Special rebate of 4d. per lb. allowed on

quantities of 5 cwt. in one delivery, or on contract for delivery within three months.

MERCURY SALTS.—Prices for the home trade are as follows: AMMONIUM CHLORIDE, B.P., powder, from 8s. 2d. (1-cwt. lots) to 8s. 10d. (7-lb.) per lb.; lump, 8s. to 8s. 8d. BICHLORIDE, B.P., powder, 6s. 9d. to 7s. 5d. per lb.; lump, 7s. 3d. to 7s. 11d. CALOMEL, B.P., 8s. 2d. to 8s. 10d. per lb. RED OXIDE, B.P.C., and YELLOW OXIDE, B.P., from 8s. 8d. to 9s. 4d. per lb.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt. in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

METOL.—Steady. Prices per lb. are: 10 cwt., 19s.; 5 cwt., 19s. 6d.; 1 cwt., 20s.; 28 lb., 21s.; 14 lb., 23s.; 7 lb., 24s. Carriage paid in the United Kingdom.

OXALIC ACID.—Quotations range from 133s. to 140s. 6d. per cwt., in 1-cwt. kegs. In 5-cwt. casks prices are about 5s. per cwt. less.

PANCREATIN.—Price of B.P. material is from 13s. 6d. to 16s. 6d. per lb., according to quantity.

PARALDEHYDE.—Rates for B.P. material, from May 19, are as follows: 5 carboys, 1s. 6d. per lb.; 1 carboy, 1s. 7d.; in winchesters, from 1s. 8½d. to 2s. 0½d. per lb.

PHELLANDRENE.—Refined is quoted at 1s. 5d. per lb. in carboys, and from 1s. 6½d. to 2s. 1d. per lb. in winchesters.

PHENACETIN.—Prices range from 5s. to 6s. per lb., according to quantity. Supplies are still difficult.

PHENAZONE.—Quotations for British-made and imported material range from 22s. 6d. to 25s. per lb.

PHENOBARBITONE.—Home-trade prices are unchanged at from 35s. per lb. upwards, according to quantity.

PHENOLPHTHALEIN.—Steady. Makers' prices are: 1-cwt. lots, 6s. 10d.; 28-lb., 7s.; 14-lb., 7s. 3d. per lb.

PYROGALLIC ACID.—Quotations for CRYSTALS are: 1 cwt., 18s. 6d. per lb.; 56 lb., 19s.; 28 lb., 20s. RESUBLIMED is 22s. 3d. per lb. in 1-cwt. lots; 56-lb., 22s. 9d.; other quantities in proportion.

QUININE.—Steady. Makers' rates (per oz.) to home-trade distributors are given below: additional charges must be added for repacking, etc. ALKALOID, from 5s. to 5s. 6d.; ACETYSALICYLATE, 6s. 3d. to 6s. 9d.; BISULPHATE, 3s. 7d. to 4s. 1d.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 4s. 11d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 3d.; GLYCEROPHOSPHATE and PHOSPHATE, 5s. 5d. to 5s. 11d.; HYDROBROMIDE and HYDROCHLORIDE, 4s. 6d. to 5s.; SALICYLATE, 4s. 8d. to 5s. 2d.; SULPHATE, 4s. to 4s. 6d.; QUININE AND UREA HYDROCHLORIDE is quoted from 4s. 10d. to 5s. 4d.

RESORCIN.—Current prices range from 11s. to 11s. 6d. per lb.; **MONOACETATE** is from 14s. 6d. to 17s. 6d. per lb., according to quality.

SODIUM SALICYLATE.—Steady. Makers' price for 1 cwt. is 2s. 7d. per lb.; resellers' rates per lb. (containers in brackets) in the home market as follows: 28-lb. and under 1 cwt., 3s. 4d. (1-lb.); 3s. 3d. (2-lb.); 3s. 2½d. (4-lb.); 3s. 1½d. (7-lb.); 3s. 1d. (14-lb.); 3s. (28-lb.). Net one month.

TANNIC ACID.—Current quotations for B.P., levis, ex ether, are from 8s. 6d. per lb.

TARTARIC ACID, B.P.—British makers' current scales are:—10 cwt. and over, 170s.; 5-9 cwt., 172s.; 2-4 cwt., 174s.; 1 cwt., 176s. per cwt., delivered.

THYMOL, B.P.—Makers' prices are from 17s. 6d. to 18s. 6d. per lb., as to quantity.

Crude Drugs

ACONITE.—Indian, on the spot, is offered at 275s. per cwt.; *napellus*, quoted at 3s. 10½d. to 4s. 3d., duty paid.

AGAR.—Market is unchanged and quiet. Kóbé strip from 13s. 6d. to 15s. per lb., according to quality. South African powder, in tins in cases, 18s. 3d. per lb., spot. No licences to import being issued.

ALOES.—Prime Cape quoted at 115s. per cwt., spot; shipment, 105s., c.i.f. Curaçao is available at 175s. per cwt., spot, and Socotrine at 170s.

BALSAMS.—Canada on spot quoted from 12s. 3d. per lb. Parà *Copaiba*, B.P., 5s. 9d. per lb., spot, San Salvador *Peru* sellers at 4s. 9d. per lb., duty paid, *Tolu* is quoted at 8s. 6d. per lb., spot; shipment, 7s. 9d., c.i.f.

BELLADONNA.—Jugo-Slav root, from 3s. 11d. to 4s. per lb., duty paid, as to test; Jugo-Slav leaves (B.P.), 4s. 2d., duty paid. English leaves are quoted at about 5s. per lb., as to test.

BENZOIN.—Market continues steady but quiet. Sumatra good almond block, spot, from £17 10s. per cwt., nominal; shipment, £17, c.i.f. Siam block (small almonds), £118, c.i.f.

BISMUTH.—Metal is quoted at 10s. per lb., net, in minimum 5-cwt. lots.

BUCHU.—Small business reported. New-crop short rounds, spot, 3s. 7d. to 3s. 9d. per lb., as to quality; forward, 3s. 3d. to 3s. 5d. per lb., c.i.f.

CAMPHOR.—Quoted values unchanged on the week. Chinese tablets from 7s. 6d. (½-oz.); no offers of ¼-oz.; refined natural powder (B.P.), 6s. 3d. to 6s. 6d.; slabs (2½-lb.), 7s. 3d. per lb., spot, London, duty paid. English synthetic powder, B.P., 5s. per lb., and technical at 3s. 9d. per lb., in 100-lb. lots.

CASCARA SAGRADA.—The spot market tends rather firmer and the duty paid may be higher than former quotation 175s. per cwt. Reports from the so indicate that shipment offers are now to 167s. 6d., c.i.f., for 1949 peel.

CLOVES.—The spot market for Zanzibar is reported practically cleared, with a quoted at 1s. 2d. Shipment, Septen 1s. 1½d. c.i.f. Madagascar, in bond, 1s. prompt shipment, 1s. 0½d. per lb., Zanzibar, 1s. 1½d. per lb., c.i.f., quoted August-September shipment. Madagas 1s. 2d. per lb., duty paid; 1s. 1d. in b Penang are quoted at from 3s. to 3s. per lb., spot.

COLCHICUM.—Corms on the spot offered at from 5s. to 6s. per lb., as to seeds are 13s. per lb., ex wharf.

COLOCYNTH.—White pulp (B.P.) on is 2s. per lb.; to arrive, 1s. 9d., landed 2s. 3d. per lb.; powder, B.P., 5s. 9d.

DIGITALIS.—English leaves, f 2s. 3d. per lb.; powder, B.P., 5s. 9d.

ERGOT.—The crop of Portuguese is ported to be almost a complete fail. Quotations from the source are at 24s. 25s. per lb., c.i.f., but the quantity material available seems to be v restricted.

GINGER.—Market continues firm tends to advance. African, spot, 25s. shipment, 245s. per cwt. Jamaican dealer on spot with No. 1 about 247s. No. 2, 240s., and No. 3 at 237s. 6d. cwt., spot.

IPECACUANHA.—Except for isolated sm sales of Nicaraguan on spot at about 2 per lb., the market is practically bare supplies. A little business is also repor in Colombian at 21s. 6½, c.i.f., ex licences. No shipment offers from orig of Matto Grosso or Minas. No licences bring in Costa Rican, Brazilian or Nic aguan issued by the Board of Trade a the department is reported to be holdi expired unused licences.

MALE FERN.—Jugo-Slav root is offered 60s. per cwt., duty paid; in bond, 5 Some offers from Italy, but no busine practicable.

MENTHOL.—The spot market for Braz ilian continues firm and is now quoted 65s. to 66s. per lb., duty paid. Shipme offers are now up to about 63s. 6d., c.i Chinese has been mentioned at about 90 c.i.f., with no business reported.

MERCURY.—Ex warehouse, £18 10s. p flask; shipment, £17 17s. 6d., c.i.f. U.K.

MYRRH.—Aden sorts, spot, offered at £ per cwt., sittings are at £6 10s. to £7.

NUTMEGS.—West Indian 80's, quoted from 2s. 8d., on spot with shipment 2s. 2½ per lb., c.i.f.; sound assorted, 2s. 1d. spo wormy and broken, 1s. 5d. per lb.

PODOPHYLLUM.—Indian (*cmodi*) is avail able at from 300s. per cwt., ex wharf, a

sin content; American (*peltatum*) 225s. per cwt., nominal.

YLLIUM SEED.—French black is quoted 2s. per lb., duty paid; Indian (ghela), 120s. per cwt., spot.

ILLAIA.—Small supplies on spot. ral bark, 102s. 6d. per cwt., nominal; 125s., nominal; crushed, 160s., nominal. No forward offers reported.

UBARB.—The market tends somewhat r. There are still no shipment offers source. Chinese common round on of good quality, 5s. 9d. to 6s. 6d., paid, according to fracture.

EDS.—ANISE.—Market is quiet. us, 150s. per cwt., duty free; Turkish, 1s. per cwt., in bond, both spot London. AWAY.—Dutch is easier with 105s. per duty paid, spot London now quoted. CERY.—Indian is unchanged at 1s. 2d. lb., spot London, French offered at 1s. 3d. per lb., duty paid in London.

LANDER.—Market remains firm. Mocco spot London is 43s. per cwt., in b. New crop, for prompt shipment is ed at 42s. 6d. per cwt., c.i.f. London. entine is still quoted at 32s. 6d. per duty paid, spot London. Splits are h 26s. per cwt., duty paid, spot, Lon-

CUMIN.—Market firm. Cyprus quoted inal at 150s. per cwt., spot London. Mocco, lying in Liverpool, is 135s. per , in bond, and 145s. per cwt., duty . Indian is offered at 145s. per cwt., London. DILL.—Indian remains un-

ged at 55s. per cwt., spot London. NEL.—Indian is quiet at 67s. 6d. to per cwt., according to quality, spot on. FENUGREEK.—Market unchanged. Indian 57s. 6d. per cwt., spot London. Mocco 52s. 6d. per cwt., duty paid, spot don or Liverpool.

ENEGA.—Market continues firm with t now fully 6s. 3d. to 6s. 9d. The ship- t market appears to be very firm and price for what material may be avail- e would be from 6s. per lb., c.i.f.

TURNERIC.—Rather dearer on quotation, t quotations for Madras are about s.; afloat, about 108s. per cwt., c.i.f.

VAXES.—Dar-es-Salaam BEES', 340s. cwt., spot; shipment, 330s., c.i.f. anese, in bond, 310s.; for shipment, s. per cwt., c.i.f. Lindi, 335s. per cwt., t; shipment, 327s. 6d., c.i.f. Benguela, s., in bond, and 325s. per cwt., duty d; for shipment, 275s., c.i.f. CANDE- LA.—Steady. Spot offers are 335s. per t; September delivery, 310s. CARNAUBA. Prime yellow is 685s. per cwt., spot; pment, 615s., c.i.f. Fatty grey on spot is ner at 475s. per cwt., for minimum ntities only; for shipment, 470s., c.i.f. ONTAN.—Reibek is steady at 180s. per t., spot; shipment, 150s., c.i.f. OURRI- 41.—99.5 per cent. pure is quoted firmer 460s. per cwt., spot; for shipment, 435s., f. SPERMACETI.—2s. 5d., per lb., spot.

Essential and Expressed Oils

ANISE.—Market dearer and firm. Chinese Star on spot is now quoted at 7s. 6d. per lb. in drums. Shipment offers of drums have been received at 7s. 9d. c.i.f.

BAY.—Steady. West Indian on the spot is quoted at from 6s. to 7s. 6d. per lb.

CAMPHOR.—White oil on spot is quoted at from 2s. 3d. per lb., duty paid; brown oil, from 1s. 9d. per lb., spot, duty paid.

CARAWAY.—English-distilled is offered at from 37s. to 40s.; imported, 27s. 6d. to 30s. per lb., as to quantity.

CITRONELLA.—Firm. Ceylon continues in short supply on spot from 5s. 6d. per lb.; Java is not coming forward in any quantity; from origin, 9s. 9d., c.i.f., is quoted. There may be small spot parcels at about 11s. per lb.

EUCALYPTUS.—Firm. Spot quotations for 70-75 per cent (B.P.) are from 3s. 3d. to 3s. 6d. per lb. for drums, as to seller.

GERANIUM.—Bourbon on spot is offered at 56s. to 60s. per lb. Supplies are short.

LAVENDER.—Fully steady. French, 38-40 per cent., on spot, is quoted from 16s. per lb.; 40-42 per cent., from 17s. 6d. Spanish spike is from 7s. 3d. per lb., spot.

LEMONGRASS.—Firm. Spot quotations are 8s. 9d. to 9s. per lb.; shipment, 8s. 3d. to 8s. 5d., c.i.f.

LIME.—Steady. West Indian on spot is offered at from 38s. 6d. per lb.

ORANGE.—West African sweet on the spot is from 7s. 6d. per lb., duty paid, shipment, 5s. 6d. c.i.f. Italian sweet is quoted at from 18s., duty paid; Italian bitter, from 13s., duty paid.

PALMAROSA.—Very small stocks on spot and any oil available would be from 35s. per lb.; shipment offers at 32s. c.i.f.

PATCHOULI.—Singapore is firm at from 40s. to 42s. 6d. per lb., spot, with little demand; forward, 36s., c.i.f., indicated.

PEPPERMINT.—English-distilled "Mitcham" oil is offered at 200s. per lb.

PIMENTO BERRY.—English-distilled oil, from 57s. 6d. to 65s. per lb. and upwards as to quantity.

SANDALWOOD.—Mysore oil on spot, from 66s. to 73s. per lb.; English-distilled is about 75s. per lb.; West Indian, from 16s. per lb., on the spot.

THYME.—Red oil (40-42 per cent. phenols), 10s. 6d. to 12s. 6d. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Quotations are from 6s. 6d. to 8s. per lb., according to quantity.

VALERIAN.—English-distilled oil is quoted at 75s. per oz.

VETIVERT.—Bourbon on spot is quoted at from 65s. to 70s. per lb., as to grade.

TRADE MARKS

(From the "Trade Marks Journal,"
August 17)

For all goods (3).—"FINN M'COOL"; by Alexander Finlay, Ltd., Belfast; B674,679. "ROMALIN"; by County Perfumery Co., Ltd., Stanmore; 675,932.

For non-medicated toilet preparations (3).—Device of woman's head; by Elizabeth Arden, Ltd., London, W.1.; 652,533. "MIRCLAIRE"; by Edythe Barclay, London, N.W.1; 674,266.

For hair preparations (3).—"SILVIKRIN VIT-OIL" (in distinctive lettering); by Drugs, Ltd., London, N.10; 663,969. "BARRY'S TRICOPHEROUS" on label device; by Lanman & Kamp-Barclay & Co., Inc., New York; 671,195.

For detergents (3).—"SCRUBB'S CLOUDY AMMONIA" on label device; by Scrubb & Co., Ltd., London, S.W.19; 667,492. "CHROMOGLEAM"; by Joel Langdon Lewis, Bristol; 672,500. "ILMA NUSOPE" on label device; by Ilia Dolski, Liverpool; 674,711.

For artificial teeth cleaning preparations (3).—"CLENCRIL"; by Krauth Chemicals, Walton-on-Thames; 675,811.

For pharmaceutical preparations (5).—"TRICO"; by Trinity Laboratories, Ltd., Blackburn; 669,662. "TUSSNIP"; by Albert Harold Williams, Neath; 669,976. "OVITE"; by Associated Preparations, Ltd., Twickenham; 670,214.

For medicated pills for women (5).—"GOLDEN MOTHER PILLS" on label device including mother and child; by Nu-Organic Remedies, Ltd., London, N.W.6; B669,017.

For disinfectants and fumigants (5).—"REMCO"; by Josef Watt, London, N.7; 671,553.

For insecticides, acaricides, worm-killing preparations, etc. (5).—"PARATOT" and "NEMAMORT"; by Pest Control, Ltd., Harston; 674,056 and B674,901.

For insecticides containing phosphorus (5).—"MURPHOS"; by the Murphy Chemical Co., Ltd., Wheathampstead; 675,696.

For analgesic preparations (5).—"CO-DISPRIN"; by Reckitt & Colman, Ltd., Hull; 676,592.

For medicated toilet paper and paper articles (5).—"CUMBELLA"; by Cumberland Paper Co., Ltd., Cleator; 676,741.

For all goods (5).—"ZUBES" in distinctive lettering; by Sunnysdale Products, Ltd., Hull; 679,037.

For pharmaceutical substances, and fant's and invalids' foods (5).—"THORIN"; by Roche Products, Ltd., Weyn Garden City; 676,671.

For razor strops (8).—"FORTUNE"; David Reginald Hayneave, Camberwell; B669,306.

For scrapers for removing toilet preparations from the face (8).—"MIRCLAIRE" by Edythe Barclay, London, N.W.1; 674,267.

For razors and razor blades (8).—"FOOTBALL" and football device; Enrique Bassat, London, W.C.1; 676,696 and 676,696.

For surgical and veterinary apparatus etc., of rubber (10).—"NORTA"; North's Rubber Co., Ltd., Mitcham; 671,511.

For non-medicated toilet paper (16).—"PLAX NUMBER ONE" on label device by Neville's (Distributors), Ltd., London, E.14; 667,984.

For brush and comb sets and manicure sets, etc. (21).—"PATINA"; by Adie Broome, Birmingham; B643,255.

(From the "Trade Marks Journal,"
August 24)

For soaps (3).—"FLORPAX"; by F. Chetts, Ltd., Birmingham; 675,786.

For non-medicated toilet preparations (3).—"VONO"; by Joseph Patchett, Oldham; 647,679. "POLO" and mounted polo player; by Lenthéric, Ltd., London, W.1; 657,863-64. "DE VINO" in distinctive lettering; by A. Wainstead, Ltd., Kingston-on-Thames; 660,205. "CARLSIMA"; by Potter & Moore, Ltd., London, E.10; 668,493.

For detergents (3).—"KIK" in distinctive lettering; by Oakhill Packing Co. Ltd., Accrington; 674,678. "HYDRO-SOKE"; by Sutton & Phillips, Ltd., Stowmarket; B677,140.

COMING EVENTS

Tuesday, September 6

SOUTH-EAST LONDON ASSOCIATIONS (comprising the South-east London Chemists' Association and the South-east Metropolitan Branches of the Pharmaceutical Society, National Pharmaceutical Union and Photographic Dealers' Association, Grove Tavern, Camberwell Grove, London S.E.5, at 7.30 p.m. Special meeting to discuss constitution.

Thursday, September 8

LONDON CHEMISTS' GOLFING SOCIETY. Competition at Old Fold Manor Club (Telephone: Barnet 2266).

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500 "	1" x 10 yds.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72/-	per gross
5,600 "	1" x 5 yds.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72/-	per gross

These goods are in perfect condition and the majority are packed in hermetically sealed tins.

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24,000 Nu-Hesive. Self adhesive bandages.	3" x 5 yd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36/-	per gross
11,000 Nu-Hesive. Self adhesive bandages.	2" x 5 yd.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24/-	per gross
10,000 Pkts. Cotton Wool Pads.	50 in a pkt. For removal of liquid vesicant and application of Ointments and Beauty preparations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30/-	per gross pkts.
18,000 Tins (4 oz.) Sprinkler top.	Foot Powder	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48/-	per gross
500 gross pkts. Gauze.	(containing two 1/2 yd. pieces. Doubly wrapped. For surgical use)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24/-	per gross
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5,030 Boric Acid Ointment.	4 oz. jars. U.S.P. Quality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36/-	per gross
3,000 Boxes Sulfanilamide Crystalline	each containing 12 pkts. sterile shaker, 5 grams.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48/-	per gross
each. U.S.P. Quality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48/-	per gross
3,000 Boxes Iodum Potassium Iodide,	each containing 10 tubes. U.S.P. Quality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48/-	per gross
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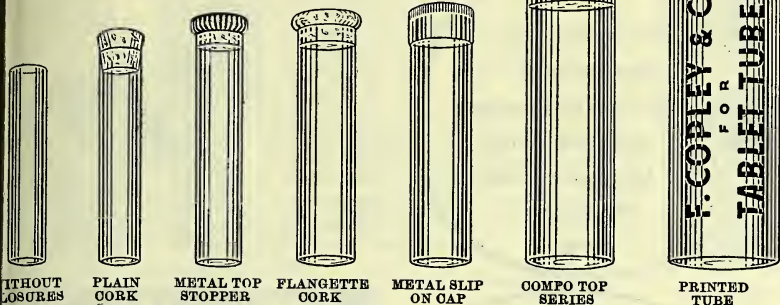
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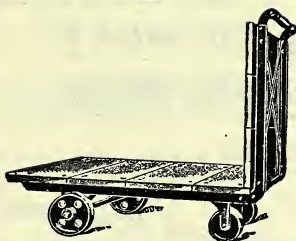
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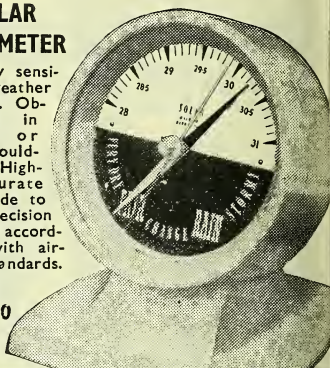
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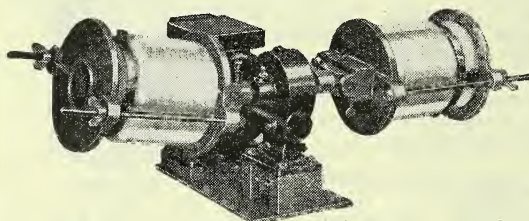
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Trade price 22/6d. doz.
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Dispensing pack 250
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The Dual-Action Analgesic

Each tablet contains : amphetamine ('Benzedrine') sulphate 2.5 mg.;
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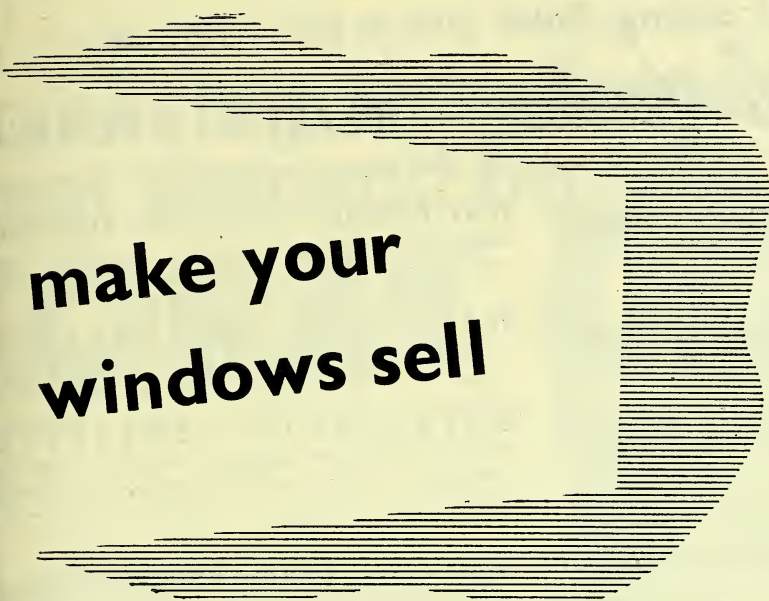
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Packed in attractive display outers and nationally advertised

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Plastic films with medicated lint centres. Washable oilproof and completely waterproof. Packed in tins

Trade per doz. 5/6

Retail each 10d.

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In tins each containing 3 Dressings, 2 drawing and 1 healing

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For small boils and pustules. Packed in tins each containing 6 Dressings, 4 drawing and 2 healing

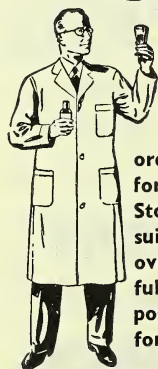
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Due to the difficulty in obtaining supplies of white coats, white jackets, etc., it is not possible to accept orders for such goods for the time being. Stocks of blue boiler suits and bib and brace overalls are fairly plentiful and we are in a position to accept orders for same from stock.

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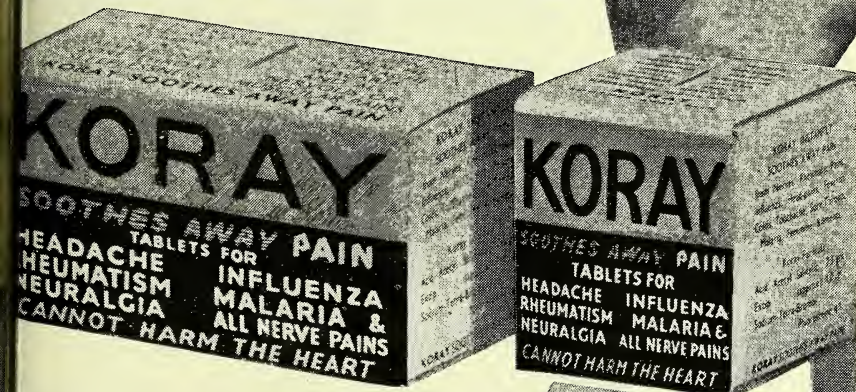
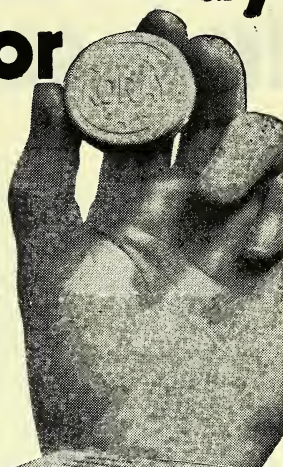
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PW 17/49

THIS HANDY PLASTIC CONTAINER IS Increasing the already great demand for **KORAY**

The thousands who regard KORAY as their "First
in case of pain are making this plastic container
a constant companion. It holds 5 tablets and
fits into a waistcoat pocket or the smallest handbag.



There is a container in every one of the neat,
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tablets give you a good profit margin and are
excellent counter-lines. They are backed by
powerful national advertising and create
that goodwill which is only associated with
a tried and proved product of quality.

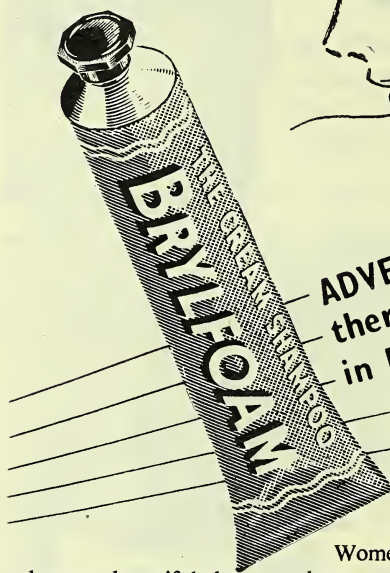
The 10 tablet pack, recently re-designed, will act as an
introduction to those who are not yet fully aware of the
thoroughly dependable analgesic qualities of KORAY.



Send your order now to:

KORAY LTD., GOLDEN MILE WORKS, BRIDGEND, GLAM.

**You can
trade on
that**



**ADVERTISING TELLS . . .
there's more foam
in Brylfoam**

**THERE'S MORE SPARKLE
THERE'S MORE VALUE
THERE'S MORE OBEDIENCE**

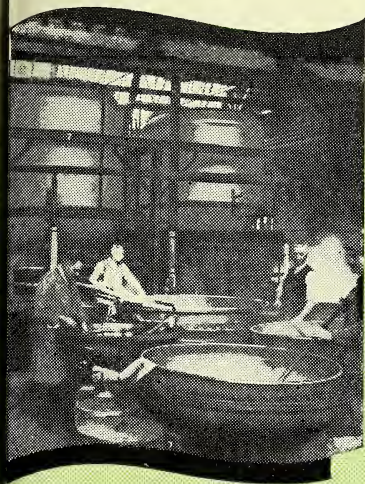
Women know they can rely on Brylfoam to give them the most beautiful shampoo, because Brylfoam's generous, creamy lather beautifies as it cleanses. After a Brylfoam cream shampoo, *every* type of hair takes on a new radiance. And week in, week out, bigger-than-ever advertising is keeping Brylfoam in the public eye, focussing attention on the famous slogan: "There's more foam in Brylfoam". So keep up your stocks — you'll find there's more profit, too.

BRYLFOAM

the original and best-selling cream shampoo

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The manufacturing processes involved in the production of galenical preparations from medicinal plants need expert attention at every stage.

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and make all the necessary tools and gauges

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sure the perfection
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CLOSURES
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is Selling

Chemists who wisely ordered this new contraceptive, and use the attractive display material, are doing brisk business.



Rendell-Foam is worthy of your recommendation for the following reasons:—

- ★ The result of biological and clinical research, it sets a new standard in the technique of contraception and will be widely prescribed when conception control is necessary or desirable.
- ★ Completely spermicidal and remarkably rapid in action.
- ★ Non-irritant, has no objectionable odour, and is free from insoluble substances.
- ★ Will keep indefinitely and is not affected by climatic conditions.
- ★ The retail price, 2/6 per tube of twelve tablets, is an important public consideration.

OBTAINABLE FROM ALL WHOLESALERS P.A.T.A

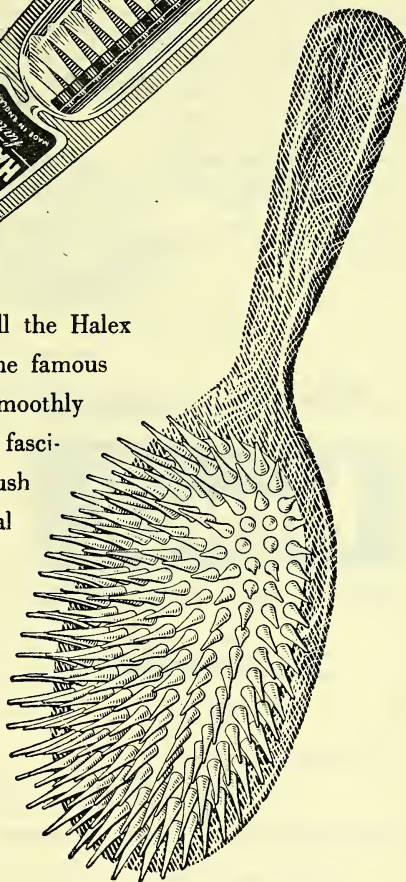
Supplies of less than 6 dozen tubes	21/- per dozen net
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HALEX
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Enthusiastic welcome for Sherley's Cream Shampoo

It was only natural and logical that Sherley's should provide a first-class canine Cream Shampoo. Sales of Sherley's Cream Shampoo for dogs are already BIG, as was only to be expected—but YOUR sales of this new line, a wonderful boon to all dog owners, will depend entirely on adequate STOCKS. Don't risk disappointing even one prospective customer. Order now and—for your own sake—please order well!

**TERMS:**

9/- per doz. plus 33% purchase tax

RETAIL PRICE: 1/3

per large tube

A. F. SHERLEY & CO. LTD.

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*Always supply***MENEX****FOR WOMEN WHO PREFER***Soluble*
TOWELSPre-stretched, detachable loops,
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"MATER"**CLINICAL**The position of the mercury column is at one
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SOAP . OINTMENT

TALCUM POWDER . SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good—Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

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Retails 10½d. each

Costs 5/9 per doz.

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DISPLAY STAND
WITH
3 DOZ. LOTS

RODMILL
CHEM. Co. L^{TD}.
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**MADE FROM PURE WHITE
LATEX FOAM**

**"cutie"
COSMETIC SPONGE**



Washable · Soft Texture

IDEAL FOR USE WITH

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GIVING A SATIN SMOOTH FINISH

WITHOUT STREAKS OR UNEVENNESS

10½^D. EACH



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This is one of the finest Infra-Red and Radiant Heat Models in the "Sol-Tan" range. It is the result of careful development and design and embodies the highest quality materials and workmanship; finished in Cream Enamel and Chromium Plated Fittings.

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Our new Fully Illustrated Catalogue gladly sent on request.

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SOL-TAN "Master"
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One Hole
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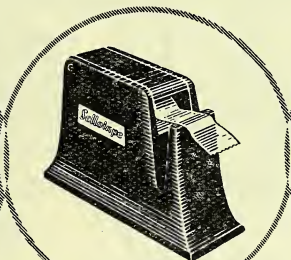
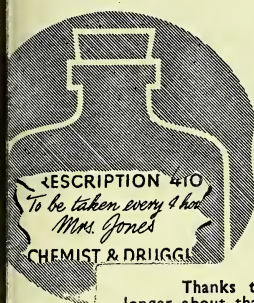
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SELLOTAPE

SELF ADHESIVE CELLULOSE TAPE

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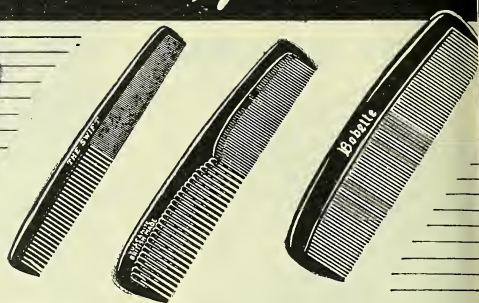
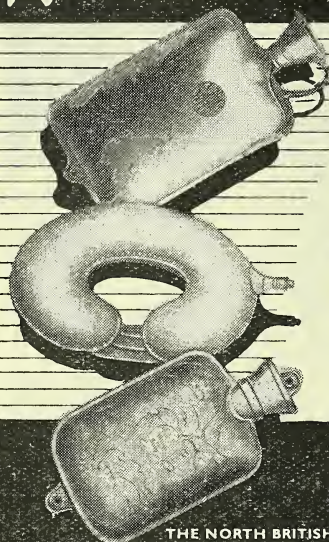
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The Quick Rat Poison

P.A.T.A.

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GIVE
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BISCUIT-**

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From all over the Kingdom—from Scotland to Lands End—come letters from grateful mothers and from nurses and midwives—in warm praise for ZAC Baby Products. Sales are mounting steadily. Are you getting your share? Read these letters:

Sore buttocks cleared after two applications.

"I have fifteen months' old twins and the larger baby is very prone to sore buttocks. After two applications of ZAC Baby Cream all signs of redness had completely disappeared. I have tried many creams and a prescription to no avail. I am indeed grateful to you."

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—writes a S.R.N.

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I have used ZAC Baby Powder for dusting the infants' skins after bathing and have advised many mothers to use ZAC Baby Cream and Powder."

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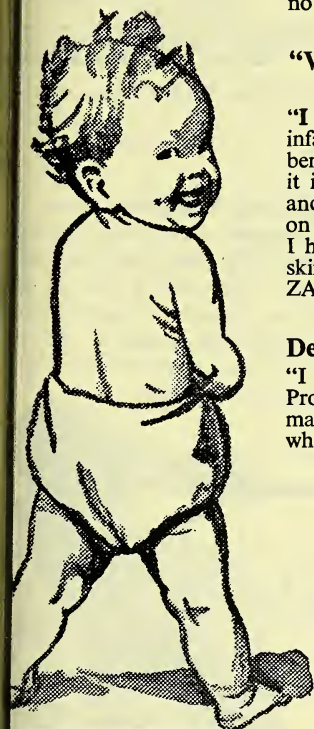
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BABY CREAM
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GRIPE MIXTURE

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HOSTESS
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Making a host of friends

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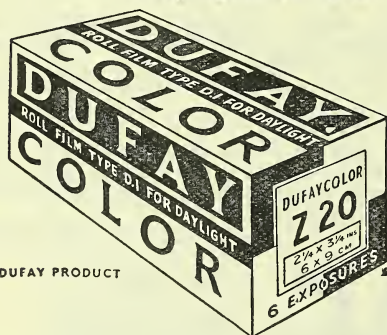
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RETAIL PRICE - per bottle 33/-
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And a quality you can confidently recommend. The smart pack is a most attractive display. Popular flavours: Orange, Lemon and Orange, Pineapple, Applim (a Lime flavoured juice cordial).

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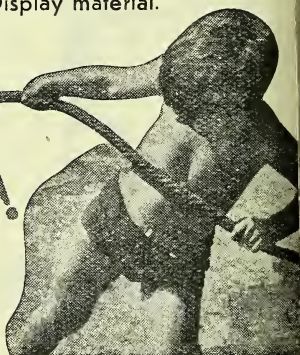
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ROZALEX

IT STOPS DIRT FROM
GETTING INTO YOUR SKIN

ALSO ROZALEX OINTMENT

Rozalex Ltd., 10 Norfolk St., Manchester 2

Millions of Women

are being told about this famous Eye-lash Beautifier through an advertising scheme which blankets the country.

ADELAIDE GREY'S 'LALEEK'

LONGLASH

Medically approved. A line which sells on sight. Retailers at 2/1. Usual trade discounts. Supplied in display cartons of 1 doz.

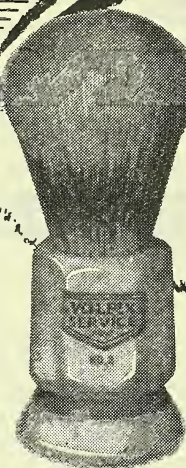
Order through your wholesaler. If any difficulty, write direct to:

ADELAIDE GREY LTD

30 (c) Old Bond Street
London, W.1

Telephone:
Regent 5825





VULFIX—the present with a BIG future!

VULFIX Service Shaving Brushes will be sure best sellers this Christmas. Here is a really practical present that bears a personal touch!

VULFIX shaving brushes are available in four sizes—"Service" No's. 1, 2, 3 and 4, at popular prices ranging from 3/11d. to 8/9d. Every brush is a quality article with pure bristles and carries a TWO YEAR GUARANTEE!

To aid your sales between now and Christmas, lively press advertisements will appear in a number of National newspapers having a huge coast-to-coast coverage, with readership appeal to all classes.

Be prepared for a big demand. Stock up with VULFIX now!

VULFIX[®] "Service" Shaving BRUSHES

PROGRESS SHAVING BRUSH Co., Ltd., Mottram Street, Stockport
49 Leadenhall Street, London, E.C.3.

THE BRUSH WITH THE TWO YEARS GUARANTEE



These sell quickly

PARKINSONS' PILLS, KILKOF

VITAGRAINS and the wide

range of other preparations sell quickly and bring repeat sales through their quality.

NATIONALLY ADVERTISED

P.A.T.

PARKINSONS OF BURNLEY

News from **DALMAS** of Leicester

New waterproof adhesive strapping

Supplies increased to meet heavy demand

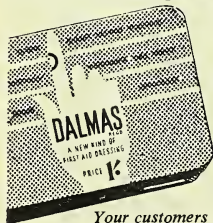
Demand is already heavy for Dalmas Strapping, a new plastic adhesive that has the great advantage of being absolutely *waterproof*. Because of this, supplies have been greatly increased.

Especially suitable for tiny cuts, sore places, torn finger nails, etc., Dalmas Strapping gives 100% protection against water, dirt, grease and acid. In particular, it is ideal wherever a bandage would be awkward. Because Dalmas Strapping stretches *all* ways, edges stick tight while allowing free movement of joints and muscles.

Dalmas Strapping is skin-coloured, hardly shows. Attractive sell-outs contain twelve 1/- spools, each 1 inch by 1 yard, price 8/-; or 24 spools, price 16/-. Special quantity discounts. Also in 3 yard lengths, and in 2" and 3" widths. **PLACE YOUR ORDER NOW!**

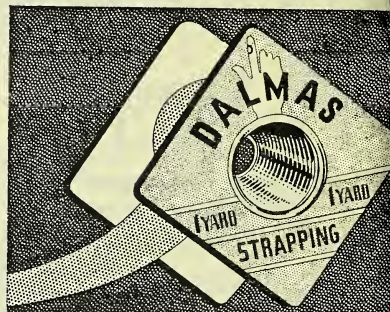
Dalmas First-Aid Dressings

Dalmas, a *waterproof* plastic dressing, provides a totally new method of protecting cuts and minor wounds. Like Dalmas Strapping, Dalmas First-Aid Dressings give complete protection against water, dirt, grease, acid—you can actually wash with them *on!* Edges stick tight, can't fray, can't catch in clothes. Dalmas lessens infection risk, promotes safe and easy healing.



*Your customers
will look for this blue
and white box.*

Blue-and-white counter sell-outs containing three dozen 1/- boxes, price 8/- per dozen.



Dalmas Strapping stretches all ways, is ideal for places where a bandage would be awkward

DALMAS BOIL PLASTERS

A new *waterproof* protective dressing for boils. Skin-coloured, hardly shows. Handy boxes, price 10d. retail, including tax.

DALMAS HEEL DRESSINGS

A *waterproof* dressing that is specially designed for sore and blistered heels. Handy boxes, price 1/- retail.

DALMAS FINGER-TIP DRESSINGS

A new *waterproof* adhesive protection for cracked, cut or sore finger-tips. Handy boxes, price 1/- retail.

A. de St. Dalmas & Co. Ltd.
Leicester (Leicester 65261)

London Depot: 140-142 St. John St., E.C.
(Clerkenwell 3399)

Leeds Depot: 14 Neville Street
(Leeds 29764)

Scottish Agents: Robert Telford,
29 Waterloo Street, Glasgow, C.2
(Central 2716)

SEPTEMBER 3, 1949

Chemist & Druggist SUPPLEMENT

HEAD OFFICE: 28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone: Central 6565 (10 lines)

Classified Advertisements must be prepaid.

Telegrams: "Chemicus, Estrand, London"

For rates see sectional headings

IRE NORTHERN IRELAND

ORRIDGE & CO. (Established 1846)

SALES, PURCHASES, VALUATIONS, STOCKTAKING and ASSESSMENTS

1. Ireland. Recently established business for Turnover at present about £70 per week. An estimated net profit of £15 per week. Accommodation available. Stock is estimated at about £1,800, fittings and fixtures about £1,000. Scope for optics and development of agricultural trade. Price required £3,000 all in or on terms considered.

2. South Africa. We have a comprehensive list of South African businesses for sale, and an established agency in Johannesburg and Cape Town and will gladly forward details together with advice upon conditions and emigration on request.

3. Ireland. Business Transfers. We have established a department dealing exclusively with business transfers in Ireland. Our register of prospective purchasers ensures early and advantageous introductions, and our experience can save you worry and loss. Advice is freely available to any pharmacist wishing to dispose of his business.

4. Ireland Stocktaking. A skilled and experienced Staff is at the service of Irish pharmacists. Work is done quickly, efficiently, and accurately. Detailed results showing cost and retail are available within a few days.

WE INVITE YOUR ENQUIRIES

184 STRAND • LONDON • W.C.2

Telephone: TEMPLE BAR 9212/3-6340

Branch Offices: 36 Cannon St., Birmingham, 2.

77 High St., Shirley, Southampton.

Telegrams: Orridgechem Estrand, London

Phone: Midland 6547

Phone: Southampton 71708

BUSINESSES FOR DISPOSAL

8/6 (minimum) then 3d. per word. Box 2/-

FACTURERS OF PERFUMERY and toilet articles. Established 14 years. Well-known marks, valuable connections home and export. Excellent popular range. For sale without owing to expiration of factory lease. Opportunity for substantial concern to business by acquiring additional profitable introduced prior to price-control regulation. Goodwill £3,000, up-to-date plant and fittings, £500, useful stock about £2,000. Principals, Box 6/663.

LONDON. Old-established chemists' business. Sale. Well-fitted shop with dispensary equipment; good main road position, opposite Long lease at low rent, £120 p.a. Price for lease, goodwill, fittings, etc. Ready to take. Manners, Hearne & Manners, 5 Finsbury Square, E.C.2. Mon. 0794.

BUSINESSES WANTED

8/6 (minimum) then 3d. per word. Box 2/-

PHARMACIST desires to purchase business in Southern England or West Country showing profit approx. £1,000, but smaller business drug store with scope for increasing trade. Living accommodation and garden if possible. Details in confidence to Box 6/668.

APPOINTMENTS

2/6 per line (12 lines = 1"). Box 2/-

HILL END HOSPITAL & CLINIC, ST. ALBANS, HERTS

DISPENSER (locum tenens), male or female, wanted immediately. Salary 7 guineas per week. Apply, stating full particulars of experience to Medical Superintendent, Hill End Hospital & Clinic, St. Albans, Herts.

KINGSTON HOSPITAL, WOLVERTON AVENUE, KINGSTON-ON-THAMES

Applications are invited for the following appointments at the above hospital:—
DEPUTY CHIEF PHARMACIST.

Candidates should have had not less than three years' experience in hospital pharmacy and preferably hold the qualification of Pharmaceutical Chemist. Salary on the scale £425 x £20 x £525.

ASSISTANT PHARMACIST.

Previous experience not essential. Salary on the scale £370 x £15 x £450.

The salaries will be subject to modification in accordance with recommendations agreed by the Pharmaceutical Whitley Council.

Applications, together with copies of testimonials or the names of persons to whom reference may be made, should be sent as soon as possible to the Medical Superintendent.

The Bridge
Walsall, nr. Birmingham
Phone : Walsall 5948
28 Rigby Buildings, 4 Aytoun St.
Manchester 1
Phone : Central 0877
141 Bath St., Glasgow
Phone : Douglas 3168

ERNEST J. GEORGE & CO.

Chemists' Transfer Agents, Stocktakers
and Valuers

329 HIGH HOLBORN
LONDON, W.C.1

Phone : Hol. 7406/7 and 2397

South Coast Representative

G. Loxton Grinstead, M.S.
"Edweina," Oaklands A
Saltdean, nr. Brighton, S

Phone : Rottingdean 82.

BUSINESSES FOR DISPOSAL

A.1. Essex Town. Well-established business with remunerative sub-Post Office. Net profit for current financial year should exceed £2,500. Very large N.H.S. connection. Good living accommodation including 4 bedrooms, bathroom, etc.; rent £156. Total price approximately £5,000, of which £1,000/£1,500 can, if necessary, be paid over an agreed period. This is an exceptionally high profit-earning business, and should prove a first-class capital investment.

A.2. Suburban Essex. Cash drug store offered for conversion to pharmacy. Premises occupy main road position. Turnover for last financial year, £6,344. Lock-up shop. Property can be purchased or 21-year lease will be granted. Total minimum price, £3,750, subject to stock, £1,500. Excellent scope under qualified proprietorship.

A.3. Hants. Freehold property which for 40 years up to 1940 had been utilised as a pharmacy. Premises include living accommodation. Price

asked for freehold (with vacant possession) £2,250. Reasonably near offers considered.

A.4. Notts. Family business offering good for further development. Turnover for 1948 £3,465. The price asked for the business £2,000, which includes stock estimated at (to be taken at valuation). The property, which a substantial mortgage could not be arranged, is also for sale at a price of £750 flat above the shop is at present sub-let.

A.5. London, S.W. Well-established business occupying main road position. Certified net fit for last financial year exceed £3,000 turnover of £8,632. Substantial N.H.S. connection. Three-bedroomed house with bathroom garden available for purchase at a price £1,800. Price asked for business, £4,700 including stock, £1,400; near offer considered excellent opportunity.

OFFICIAL VALUERS TO THE N.P.U. BUSINESS PURCHASE FUND

Appointments—Continued

CONNAUGHT HOSPITAL, WALTHAMSTOW, E.17

ASSISTANT TO PHARMACIST required immediately (Hall certificate). Hospital experience preferred. Salary in accordance with J.N.C. scale. Applications, stating age, experience, etc., together with copies of two recent testimonials, to the Secretary, Forest (No. 11) Group Hospital Management Committee, Langthorne Rd., Leytonstone, E.11.

SUNDERLAND AREA HOSPITAL MANAGEMENT COMMITTEE

Applications are invited for the following posts:—

(a) ASSISTANT PHARMACIST at the ROYAL INFIRMARY AND CHILDREN'S HOSPITAL. Salary in accordance with J.N.C. Scale. Previous hospital experience will be considered in determining salary according to scale.

(b) ASSISTANT DISPENSER at the RYHOPE GENERAL HOSPITAL. Applicants must hold the Apothecary Hall certificate. Salary in accordance with J.N.C. Scale, viz.: commencing £270 per annum, rising in 9 years to a maximum of £350 per annum.

Both these appointments are subject to the National Health Service (Superannuation) Regulations.

Applications, stating age and experience, together with the names of two referees to be sent to F. Dagnall, Secretary, Sunderland Area Hospital Management Committee, Royal Infirmary, Sunderland.

THE HOSPITAL FOR SICK CHILDREN GREAT ORMOND STREET, LONDON W.C.1.

ASSISTANT PHARMACIST

Applications are invited for this post. Salary, £370 to £450 on J.N.C. Scale, according to experience. Apply, with details of age and experience, to A. Rae, Chief Pharmacist.

WEST LONDON HOSPITAL, HAMMERSMITH, W.6.

Applications are invited for the appointment of assistant pharmacist (male). Salary in accordance with the J.N.C. Scale. Applications, with usual particulars, to the Pharmacist.

WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX (South-West Middlesex Hospital Management Committee)

DEPUTY CHIEF PHARMACIST

Applications are invited for the above. Candidates should preferably hold the qualification of Pharmaceutical Chemist. Salary £425 x £20—£525, plus an additional increment of £15 to £540 if specially recommended. The appointment will be subject to a local examination and the provisions of National Health Service (Superannuation) Regulations, 1947. Applications, stating qualifications, present employment and previous experience, together with testimonials and the names of three referees, should be made in the applicant's own handwriting to the Chief Pharmacist at the above hospital.

WEST MIDDLESEX HOSPITAL, ISLEWORTH, MIDDLESEX

(J.N.C. WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE)

Applications are invited for the post of **CHIEF PHARMACIST**. Salary in accordance with the J.N.C. scale, £370-£450 per annum. Commencing salary will depend on previous experience. Appointment to commence on 1st October, 1949. Subject to the Hospital Health Service Superannuation Regulations. Applications, stating age, qualifications and experience, with copies of testimonials, to be sent to the Chief Pharmacist above Hospital.

ST. MARY'S HOSPITAL AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE

Applications are invited for the post of **CHIEF PHARMACIST** at Peppard Sanatorium, Henley-on-Thames, Oxon. There is one assistant, commencing salary within the J.N.C. scale of £585 according to experience. Applications, giving full particulars, and the names and addresses of two referees, to be sent to the Administrative Officer at the Sanatorium.

ST. MARY'S HOSPITAL, WHITECHAPEL, E.1.

Applications are invited for the position of **CHIEF PHARMACIST** at the above hospital. Salary according to J.N.C. (Hospital) scale. Experience will be taken into consideration in determining commencing salary. Hours: 9 a.m. to 5 p.m. (on half-days 9 a.m. to 1 p.m.). Occasional Sunday and late duty, both subject to additional remuneration. Dining room facilities. Application to Secretary.

MARY ISLINGTON HOSPITAL AND HIGHGATE HOSPITAL, N.19.

Applications are invited for the post of **CHIEF PHARMACIST**. Salary and conditions according to recommendations, pending Whitley decision. Apply, giving age, qualifications, experience, to Secretary, Archway Group Hospital Management Committee, Copley Dene, Copley Park, N.6.

UNIVERSITY OF MANCHESTER

Applications are invited for the following posts:—Assistant Lecturer in Pharmacy; Lecturer in Pharmacy. Salary Assistant Lecturer, £450 x £25—£500 per annum. Demonstrator, £400 to £500 per annum according to qualifications and experience. Applicants should possess a University degree or the Ph.C. qualification. The posts offer opportunities for prosecuting research leading to M.Sc. or Ph.D. degrees. Applications should be sent as soon as possible to the Secretary, the University, Manchester, 13, Oxford Street, Manchester, 1, for whom further particulars and forms of application may be obtained.

ROYAL LONDON HOMŒOPATHIC HOSPITAL, GREAT ORMOND STREET, W.C.1. DISPENSER

Applications (unqualified) required with good experience. Salary in accordance with Joint Pharmaceutical Committee scale. Apply, stating full particulars to Pharmacist.

CLAYTON HOSPITAL, WAKEFIELD

FIRST ASSISTANT PHARMACIST required. Non-resident post, salary in accordance with the recommendations of the Joint Negotiating Committee, i.e., £415 x £15—£490 per annum.

Applications, stating age, qualifications and experience, with copies of three recent testimonials, should be sent to the undersigned.

W. READ, Secretary.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagements Order, 1947.

SITUATIONS OPEN

36 words 8/6 (minimum) then 3d. per word. Box 2/-

RETAIL (HOME)

ASSISTANT, male or female, required for high-class dispensing business in Kensington High St., London, W.8. Good salary; no Sunday or rota duty. Applicant must be good dispenser. Apply to Mr. Ball, 151 Westbourne Terr., London, W.2. Pad. 6666.

ASSISTANT required for cosmetics, perfumery, toiletries, etc., female preferred. C. & K. George, Ltd., 38 Cowcross St. (next door Farringdon Station), E.C.1.

COMPETENT UNQUALIFIED ASSISTANT. Congenial situation. State salary, experience, to Aves, 33 Bury New Rd., Prestwich, Lancs.

CROYDON. Unqualified junior assistant required mainly for dispensing in busy pharmacy. Excellent working conditions. Apply with particulars of experience, and salary required, to O. L. Carrington, 300 London Rd., Croydon.

CROYDON AREA. Qualified assistant, full- or part-time, required for permanent position. Box 6/686.

DEREK CLARKE, Edgware. Experienced, unqualified assistant. Essentially dispensing (lady or gentleman). Full time, approximately 42 hours per week. Shift work two late nights per week, 3-10. One Sunday in four, rota duty. Salary according to experience. Derek B. Clarke, 85 Station Rd., Edgware, Middlesex, Edgware 2061.

EDGWARE. Pharmacist required. Essentially dispensing (lady or gentleman). Full time, approximately 42 hours per week. Shift work two late nights per week; 3-10. One Sunday in four rota duty. Salary according to experience. Derek B. Clarke, 85 Station Rd., Edgware, Middlesex. Edgware 2061.

HAMPSTEAD. Unqualified lady assistant required for high-class pharmacy. Dispensing experience preferable, but not essential. Pleasant working conditions. Good salary to suitable applicant. Apply with full particulars to C. Stevens, 38 Heath St., Hampstead, N.W.3.

HEPPELLS require qualified manager for West End pharmacy. Permanent position offering scope for initiative. Good salary and commissions. Pensions scheme available. Apply with full details: Superintendent Chemist, Heppells (1932), Ltd., 70 Vauxhall Bridge Rd., S.W.1.

HEPPELLS (1932), LTD., require experienced toilet assistant, West End. Good salary and commission to experienced saleswoman. Apply with full particulars to Superintendent Chemist, 70 Vauxhall Bridge Rd., S.W.1.

JUNIOR ASSISTANT required for old-established business. Counter and dispensing. Highest references essential. Applicants please give details of experience, age, etc., and when free for interview, to W. J. Boyes, 61 Balham Hill, S.W.12. Tulse Hill 1738.

Situations Open—Continued

KENSINGTON. Unqualified assistant required for high-class dispensing business. Write or telephone to Gamble & Co., 347 High St., Kensington, W.8. Tel. Western 2730.

L. ROWLAND & CO., LTD., of Wrexham, have a vacancy for an assistant manager and invite applications from qualified gentlemen who are desirous of obtaining a permanent appointment offering wide experience in all branches of pharmacy. Possession of a furnished house will be given if required. Please reply, giving details of experience, and stating remuneration requested, to the Secretary, Mitre Buildings, Brook Street, Wrexham.

LONDON CO-OPERATIVE CHEMISTS, LTD., invite applications from experienced pharmacists for branch managerial vacancies in pleasant suburban areas. Modern, well-equipped shops with good supporting staffs, attractive salary, generous commission, with payment for all rota duties. Positions permanent and superannuated, with excellent promotion prospects. Choice of living accommodation, house or flat, where required. Full particulars as to experience, wages required, etc., to Superintendent Chemist, Grange Rd., Leyton, E.10.

MANAGER REQUIRED for neglected shop in North London. Good salary and commission will be paid to keen pharmacist who has confidence in his business-building capabilities. Box 6/611.

NORTH LONDON. Dispensing assistant, either sex, unqualified or qualified. Salary, seven guineas or ten guineas respectively. No rota or Sunday duties. Opportunity for acquiring optical knowledge. Kemp, Chemist-Optician, Muswell Hill, N.10. Telephone Tudor 1262.

PHOTOGRAPHIC ASSISTANT. Young man required to train as photographic assistant. Chemist training would be an advantage but not essential. Please write, giving full particulars and salary required. Good prospects. Wallace Heaton, Ltd., 127 New Bond St., W.1.

QUALIFIED ASSISTANT PHARMACIST required for pleasantly situated pharmacy. Coast resort. Applications to Managing Secretary, Great Grimsby Co-operative Society, Ltd., 74 Garibaldi St., Grimsby.

QUALIFIED MANAGER required for branch pharmacy. Salary, £10 per week, and commission on National Health dispensing (minimum £1). Superannuation scheme. Apply, stating age and experience, to Kidderminster Co-operative Chemists, Ltd., Worcester St., Kidderminster.

QUALIFIED MANAGER required by small firm of chemists. Comfortable post and good salary and commission offered to keen man. Superintendent Pharmacist, 298 Cavendish Rd., S.W.12.

SWADLINCOTE. Unqualified assistant, either sex, required mainly for dispensing in a family business. Separate dispensary; every convenience for comfortable working. No extra duties. Prepared to wait. Apply, stating usual particulars, A. Scragg, Chemist, Swadlincote, nr. Burton-on-Trent.

THERE IS A VACANCY for a chemist to act as assistant at the York Co-operative Society's Central Pharmacy. Excellent opportunity to gain experience in busy pharmacy, with good prospects of promotion. Close 5 p.m. Rota duties 6 to 7 p.m., one week in eight. Wages in excess of scale, with flat immediately available to appointed applicant. Applications, giving full details of experience, to General Manager, York Co-operative Society, Ltd., 22 Railway St., York.

UNQUALIFIED DISPENSING ASSISTANT required for good-class Brighton pharmacy. Permanent position with good salary and commissions. No accommodation available. Apply, with full particulars, Box 6/689.

WE HAVE several interesting and well-paid vacancies for unqualified staff in the London area. Ilford, Greenford, Battersea and Edgware. Application in first instance to Superintendent Chemist, London Co-operative Chemists, Ltd., Grange Leyton, E.10.

WEST BROMWICH. Experienced assistant required for counter and dispensing, male or female. Wages and conditions. State experience, and required, to Smith, 115 Moor St., West Bromwich.

WEST END, LONDON. Opening for qualified pharmacist. Good remuneration and bonus superannuation schemes operating. Opportunity for surgical training and become branch manager. No Sunday duties, convenient roster. Give details to Box 6/671.

WEST HARTLEPOOL. Pharmacist, male or female, required to manage modern, newly fitted pharmacy. New modern house available adjacent to shop. Adequate supporting staff provided. Superannuation scheme. Salary £501 16s. per annum plus rota fees, plus bonus scheme. Excellent prospects for capable person. Apply giving particulars of experience to Superintendent Pharmacist, Hartlepool Co-operative Chemists, Ltd., Hartlepool.

RETAIL (OVERSEAS)

QUALIFIED PHARMACISTS (single men preferred) required for British East Africa. The agent is for five years but any coastal service in the term by 13 days per month for each year served at the coast, equivalent to 3½ years whole term is served at the coast. Salary, per annum, plus £30, to £720 per annum. Of-living allowance, £120 per annum. Five months leave on full pay at end of term. Passage both ways. Contributory Provident Fund. Applications in writing, giving age, qualification, experience, to W. A. Sparrow & Co., Ltd. London Wall, London, E.C.2.

WHOLESALE

A VACANCY EXISTS in the research laboratory of The British Drug Houses for a young graduate interested in both physical and chemical chemistry. Applications should be made in writing to the Personnel Manager, Ref. RMA/VP. British Drug Houses, Ltd., Graham St., City of London, N.1.

ACE SALESMAN required for London area. Torship for right man. Established firm of preparation manufacturers. Box A/363.

ASSISTANT ADVERTISING MANAGER required by manufacturers of well-known pharmaceutical products. First-class advertising and marketing experience essential. Knowledge of retail pharmaceutical trade most desirable. Age 30-40. Salary required. Write Box A/344.

AMBITIOUS young man offered opening to act as sales manager under principal established aggressive company, Bucks., marketing various dressings, packed aspirin tablets, etc. Investment required, £1,000. Commencing salary, £35 per week. Exceptional prospects. Write with copies of testimonials, photograph (if available). Box 6/690.

AN OPENING OCCURS for a really first-class man to represent a progressive firm of manufacturers supplying chemists, doctors, etc., in Yorkshire, Northumberland and Durham. Remuneration is by salary, commission and expenses. Keen man with initiative under 40. Preferably car owner, invited to apply, giving particulars, age, etc., to Box A/341.

Situations Open—Continued

EXPERIENCED full-time representative with close connections amongst hospitals and wholesale houses wanted for the provinces by an old-established London firm manufacturing and dealing in hospital equipment, medical and chemists' supplies. Basis salary and expenses. Apply by giving details of previous experience and required, Box No. 477, Foster Turner & Co., Ltd., 11 Old Jewry, E.C.2.

CHEMIST required for factory control and analytical investigations, E.C.1 area, in important work. Interesting work. Salary according to qualifications. Write, giving particulars of education and experience, to Box 2210, Frost-Smith Adv., 64 Finsbury Pavement, E.C.2.

Owing to the impending retirement on 1st of the present buyer there will shortly be a vacancy for a fully qualified man as buyer of drugs and toilet goods department. Some experience of medical lamps would be useful. This is a good opening for the right type of man. Applications, giving full particulars of qualifications and previous experience, should be sent in to the Chairman, Gamages, Holborn.

CAL MANUFACTURERS, North-West Coast; want chemist. A young pharmacist (preferably with one or two years' experience in cosmetic allied industry), is required by chemical manufacturers on N.W. Coast, for development in connection with evaluation and use of wide range of modern organic chemicals, for use in pharmaceuticals, cosmetics and foodstuffs. Good opportunity for suitable applicant with initiative. Write full particulars, to Box 6/651.

CHEMIST required by leading company of pharmaceutical medicine manufacturers in North of England. Must have extensive manufacturing experience and sound knowledge of modern packaging machinery. Applications should state full details of qualifications, previous experience, present salary, in confidence, and salary required. Box 6/651.

MEDICAL SUPPLIES LTD. require several pharmacists for dispensing and supervisory work. Salary according to qualifications and experience. Apply to The Manager, Evans Pharmaceutical Laboratories, 29 Fleet Street, Liverpool.

MEDICAL SUPPLIES, LTD., require a representative to call on retail pharmacists, hospitals and doctors in Cumberland and the Scottish Border counties. Experience and knowledge of the pharmaceutical trade an advantage, but young pharmacists having no sales experience are invited to apply and, if suitable, will be accepted for training. Car provided. Full details of experience, qualifications and salary required, to Evans Medical Supplies, Ltd., Home Medical Department, Speke, Liverpool, 19.

SALES CLERK, aged 20-26, with good mathematical ability and experience in pharmaceutical work. Write, stating salary required, to Secretariat Schering, Ltd., 167 Gt. Portland St., London, W.1.

GLASS REPRESENTATIVES required all areas on commission basis to sell fast repeating toilet paper. Require gentlemen with excellent connections with chemists, stores, etc. Please state age, experience, in confidence, to Sales Manager. Box 6/651.

LOWER. Experienced in small scientific analytical work. Good prospects. Write, stating details of experience, to Box A/353.

GLAXO LABORATORIES, LTD., require a scientific officer in their antibiotic factory at Barnard Castle. The officer appointed will be required to take charge of the control laboratory and store farm and should hold a pharmaceutical qualification in addition to B.Sc. or A.R.I.C. A progressive salary is offered—staff pension scheme. Apply, giving full particulars, to Personnel Department, Glaxo Laboratories, Ltd., Greenford, Middlesex.

IMPERIAL CHEMICAL INDUSTRIES LIMITED have vacancies for Pharmacists in several of their pharmaceutical organisations abroad. Candidates should have suitable pharmaceutical qualifications, be under 30 years of age and preferably unmarried. Their duties, varying according to the country concerned, would consist chiefly of medical and/or veterinary representative work. Applications with full particulars should be addressed to Imperial Chemical (Pharmaceuticals) Limited, Office Service Department, Fulshaw Hall, Wilmslow, Manchester.

LABORATORY ASST. required in laboratory engaged in factory control and technical investigations in important industry, E.C.1 area. Interesting work. Time allowed for study. Salary according to age and qualifications. Write, giving particulars of education, training, experience, to Box 2216, Frost-Smith Adv., 64 Finsbury Pavement, E.C.2.

LEADING PERFUMERY and cosmetic house have a vacancy for a qualified chemist accustomed to supervision of factory staff and output. Replies in first instance should specify qualifications, age, experience and when disengaged. All correspondence will be treated as strictly confidential. Reply to H.E.C., R. J. Reuter Company, Ltd., "4711" Factory, Slough, Bucks.

MANUFACTURING CHEMISTS (Liverpool) require qualified pharmacist, preferably conversant with manufacture of tinctures, galenicals and emulsions. Apply, stating qualifications, experience (if any) and salary required, to Box 6/645.

MANUFACTURING CHEMISTS in North London require experienced process man for the manufacture of pharmaceutical and toilet preparations under chemist's supervision. Apply, stating experience and salary required, etc., to Box A/330.

MEDICAL REPRESENTATIVE, Evans Medical Supplies, Ltd. Pharmacist residing in Kent or East Sussex to call on hospitals and doctors in that area. Ability and experience in propaganda and sales an advantage but young pharmacists under 35 years of age with a high-class pharmaceutical background and a flair for this type of work would be suitably trained. Car provided. Application with full details should be addressed to Evans Medical Supplies, Ltd., Home Medical Department, Speke, Liverpool 19.

MEDICAL REPRESENTATIVE required for Scotland by old-established London manufacturing chemists to call on doctors, dentists, hospitals, and the retail and wholesale trade. Applications invited from men, 23-35 years of age, trained in pharmacy, qualified or unqualified. Previous outdoor experience not essential, but knowledge of Scottish territory an advantage. State age, experience, and salary required. Box A/365.

MESSRS. SAVORY & MOORE, LTD., require an experienced tablet maker for their factory. Reply, giving details of experience, and salary expected, to the Factory Manager at Standard Works, Lawrence Rd., Tottenham, N.15.

PHARMACIST required to supervise manufacture of old-established company producing medicinal, dental and toilet products. Ability for hard work. Admirable opportunity for young chemist just qualified. 5-day week. State salary required. Box A/346.

Situations Open—Continued**PHARMACIST**

... urgently required for service with large industrial concern operating in the Middle East. Large hospitals and staff of British M.O's and Sisters. Considerable dispensing for hospital and outpatient clinics. Applicants must hold M.P.S and be not over 35. Attractive salary plus generous allowance in local currency. Free passage out and home, medical attention; kit allowance; Pension Scheme; good leave arrangements. Write giving age and full details of qualifications and experience quoting Dept. F.94 to Box 2278 at

191 Gresham House, E.C.2

REPRESENTATIVE required for well-established wholesale chemists and druggists sundriesmen (proprietaries, etc.) to take over existing live accounts in London. Salary and commission. Good prospects for right man. Reply in confidence with full particulars to Box A/354.

REPRESENTATIVE required with established connection hospitals, doctors, etc., for the sale of hospital furniture and instruments. Districts London, Home Counties, North England and Wales. Salary and commission. Edwards Surgical Supplies, Ltd., 83 Mortimer St., London W.1.

REPRESENTATIVES wanted in certain areas; high commission terms. Apply Beaucaire Laboratories, Vauxhall Grove, London, S.W.8. Telephone: Reliance 3796.

REPRESENTATIVES required by reputable pharmaceutical house to detail medical and dental professions for Eastern Scottish territory; also Lancashire and London, Surrey, Devon and Cornwall (applicant for London, Surrey, etc., must reside in Surrey). Applicants must have had similar experience. Write, giving age, details of experience, and salary required, to Box A/350.

REPRESENTATIVES calling on chemist-opticians, required in all parts of the British Isles except Scotland and North-East England. Write, giving details of territory covered and whether car owner, to Judge Optical Co., Market Sq., Holyhead, Anglesey.

REPRESENTATIVE. First-class traveller with retail experience for South-east London area, established connection handed over. Salary, expenses and commission. Own car essential. Apply Sidnick & Co., Ltd., Wholesale Chemists, 11-12 Finsbury Sq., E.C.2.

REPRESENTATIVE with first-class selling experience in the drug and galenical field is required by well-established firm of manufacturing chemists in the North of England. The position offers excellent prospects. Remuneration, based on salary and commission, will be around the four figure mark with allowances, expenses, etc., in addition. Replies (which should state if car owner) will be treated in strict confidence and should be addressed to Sales Director, Box A/324.

REPRESENTATIVES. Two first-class men required for West Sussex and East Sussex for new depot opening in Brighton. Living in area, own car. Salary, expenses and commission. Apply Sidnick & Co., Ltd., Wholesale Chemists, 11-12 Finsbury Sq., E.C.2.

REPRESENTATIVES, calling on chemists, required for North of England to sell, as additional line, a new proprietary medicine of exceptional efficiency; supported by National and Provincial Advertising. Generous commission and great possibilities. Box 6/678.

REPRESENTATIVES REQUIRED in all territories S.W., S.E. England and Lancs. For Nally advertised toilet preparations. Forward details sales career, area covered and terms Box 6/681.

REQUIRED by City export merchants, young about 20 for order records and to assist given in office of buyer of drugs, chemicals and such etc. Some experience an advantage. Write, full particulars and salary expected, Box 6/678.

SALES EXECUTIVES

T. J. SMITH & NEPHEW, LTD., the makers of Elastoplast, are expanding their sales organisation and are looking for several men with practical experience and knowledge of sales executive work including sales promotion, the organisation and direction of a high grade sales force, market research, and sales office administration. Candidates with sound experience in any of the above should apply, in confidence, giving full details of age, education, career to date, and salary expected, to—

T. L. WHITTAKER, General Sales Manager
T. J. Smith & Nephew, Ltd.
Neptune Street, Hull.

SALES REPRESENTATIVE for all veterinary products to qualified profession in Kent, Hampshire and adjoining counties. Good salary, expenses and commission. Excellent prospects for man with initiative. Car provided. Apply Box A/357.

SALES REPRESENTATIVE for all veterinary products to qualified profession in Devon, Cornwall and West Counties. Good salary with expenses and commission. Excellent prospects for man with initiative. Car provided. Apply Box A/356.

SENIOR CLERK required for sales department London wholesale chemists. Write with particulars of experience, age, salary required, etc. to Box A/367.

SENIOR INVOICE and stock control clerk about 25, required by manufacturing chemist. Good references essential. Apply in writing, giving experience and salary required, to Clinical Products, Ltd., 2 The Green, Richmond, Surrey.

SENIOR SALESMAN wanted by well-known London photographic dealer. Fully experienced and appearance. Write, giving particulars and salary required. Wallace Heaton, Ltd., 127 New St., W.1.

TABLET COATER. Urgently required—a capable round pill and tablet coater to take charge of department dealing with plain and coloured London area; 5-day week. Apply, giving age, experience, and salary required, Box A/362.

TABLET MAKER. A thoroughly experienced maker is required by a well-known London firm to understudy foreman with a view to succeeding later. Write, giving details of experience, age, salary required, Box A/361.

WORKS CHEMIST required by a North-West firm of manufacturing chemists. The position scope for a man of sound judgment. Apply, full particulars in confidence, to Managing Director Box 6/682.

YOUNG PHARMACIST, preferably man, required in amputating department of well-known London manufacturing chemists. Wholesale manufacturing experience useful but not essential. Starting salary moderate but good prospects for adaptable energetic person. Write fullest details to Box A/361.

Situations Open—Continued

ING REPRESENTATIVE wanted by small whole-chemists' sundriesmen (Est. 30 years) for the London and Essex area. Salary, commission, on sales basis. Many accounts handed over. Apply S., 196 Whittington Rd., Wood Green, N.21.

ING REPRESENTATIVES wanted for established very house, full- or part-time. Box A/364.

SITUATIONS WANTED

ds 3/- (minimum) then 1d. per word. Box 1/-

RETAIL (HOME)

(male) seeks employment, retail or whole-Preferably, but not essentially, overseas. Ex-references. Particulars to Box 6/673.

MACIST desires position in Channel Islands, as retail or chief assistant. Experienced. Box

WHOLESALE

LISHED REPRESENTATIVE calling on leading chemists, stores and hairdressers in Lancs and requires additional exclusive, high-class line for first-class dealers. Box 6/687.

ENCED COSMETIC TRAVELLER desires position in Southern territory. Genuine facilities to our-figure income required. Box 6/667.

ENCED REPRESENTATIVE with first-class record seeks position with firm of standing, in Lancs and Home Counties. Car owner. Box

ENCED TRAVELLER. Connection with chemists, etc., in Cheshire, Lancashire, Midlands, Lancashire, co. Durham, Northumberland. Salary, commission, with commission. Lines desired: Sun-soaps, packed chemicals. Box 6/688.

AGENCIES

ds 17/6 (minimum) then 4d. per word. Box 2/-

'S with first-class connections with chemists, to handle a popular six and eight ex-roll film. Attractive discounts and commission. The Panda Film Co. (Wholesale), Ltd., 100, Corner, Mitcham, Surrey.

FACTURERS' Agents Association (C. & D.), 10, Elm's Bldgs., E.C.4, supplies free lists of to manufacturers' seeking representation in important centres. Membership available to all agents.

AGENCIES WANTED

ds 8/6 (minimum) then 3d. per word. Box 2/-

MERY and cosmetic trade. Experienced with very good connections wishes to represent well-known manufacturer or wholesaler in Lancs and Surrey. Box 6/692.

CONNECTED Midland agent with storage, transport, requires agencies from reputable for drugs, dressings, proprietaries, etc., on commission and part expenses. Box 6/677.

BUSINESS OPPORTUNITIES

ds 17/6 (minimum) then 4d. per word. Box 2/-

CITY AVAILABLE for the manufacture and/or of pharmaceutical or toilet products for export market by manufacturing chemists modern equipment. All inquiries treated in confidence. J. J. & J. Jenkins & Associates, 78 Bollo Bridge Rd., London, W.3 (Acorn

MANUFACTURING CHEMISTS have facilities and plant available for the manufacture and/or packing of domestic, industrial or toilet products. Bottle, powder and tube filling. Frank Macowal, Ltd., 30 Loughborough St., S.E.11. Reliance 3435.

NATION-WIDE sales organisation with remarkable record of successful merchandising is open to consider one or two lines. Only branded lines offering possibilities of big permanent business are of interest. Box S.551, c/o Erwoods, Ltd., 211 Piccadilly, London, W.1.

WIDELY EXPERIENCED industrial chemist wishing to start consultant practice seeks partner who can supply business contacts helpful for this purpose. Money is definitely not required. Please state terms required, also any suggestions welcomed, in confidence, to Box 6/672.

WANTED

36 words 8/6 (minimum) then 3d. per word. Box 2/-

CLEARANCE LINES of cosmetic containers, powder boxes, etc., purchased for cash. Willow Pattern Perfumery, Ltd., 20 Gloucester St., Stroud, Glos.

GALBANUM POWDER, 45 lb. urgently required. Offers to Box 6/693.

LOZENGES. Bulk quantities required of linseed, liquorice and chlorodyne. Reply in first instance to Box 6/684.

MANESTY rotary tablet machine wanted. State condition and lowest price. Box A/360.

ONE OR TWO TINS "Wonder Worker" pile treatment was issued by "Wonder Worker," London, E.C.2, but product now believed to be discontinued. J. Preece, 98 Heathcote Av., Hatfield, Herts.

SCHICK BLADES, any quantity. Please write stating quantities and terms to S. Levy, 20 Leather Lane, Holborn, E.C.1.

TEXIDE or Silvertex rubber prophylactics in ex U.S.A. army or lend-lease foil strips; good condition; 500-1,000 gross lots or smaller. Offer with sample. Wolfex, Ltd., 19A Corporation St., Manchester, 4.

MISCELLANEOUS SALES

36 words 17/6 (minimum) then 4d. per word. Box 2/-

ASPIRIN TABLETS, ex Government surplus stocks. About three million in bulk containers. Also other surplus stocks. Apply for offers to Box A/345.

BEST QUALITY. 1½ tons skin glue, ground. 2 tons bone glue in cakes, for disposal at very reasonable price. Samples and particulars supplied. Box 6/679.

BICARBONATE OF AMMONIA, B.P., 5 tons, packed in 2-cwt. steel drums available as surplus to requirements; at present in store at Liverpool. Best offer secures. Write Box A/343.

BOTTLE-WASHING MACHINE for sale. Dawson Hydro. Steam heated, complete with pre-soaker, 50 trays, pump filters and spares, to take any size bottles up to 11 in. high. Cost £467, only used two months. Offer invited. Rapidol, Ltd., 22 St. Margaret's Rd., London, W.7. Ealing 2836.

FOR SALE. One No. 1 P. Type Quicka Hydro bottle washing machine, capacity 2,500 bottles per hour. In good condition and ready for immediate use. Apply Box A/358.

GLASSBLOWING, medical, scientific, and repetition by Hall Drysdale & Co., Ltd., 58 Commerce Rd., Wood Green, London, N.22. Phone: Bowes Park 7221.

LACQUERED SCREW CAPS, with cork compo cere-sin wads. 18 mm. fits 3-oz. medicals, 375 gross. 20.4 mm. fits 6-oz. medicals, 400 gross. 24.8 mm. fits 8-oz. medicals, 190 gross. Price 1s. 6d. per gross all sizes. Box 6/675.

otherwise stated, address all replies to Box Numbers c/o THE CHEMIST & DRUGGIST, 28 Essex St., London, W.C.2

Miscellaneous Sales—Continued

LATEST NOVELTY hot-water bottles (teddy-bear, cat, etc.); also full range standard sizes, single, double handle, etc., at keenest prices. List and samples upon request. E. L. Grima, 29-31 Upper Thames St., London, E.C.4.

MANUFACTURER discontinuing certain lines offers for sale 1,000 gallons liquid paraffin, 1,500 gallons technical oil. Box 6/683.

OFFERS INVITED for 2 tons Triethanolamine, 4 tons Pale Straw Glycerine, for September delivery. Box 6/685

SIX-HEAD ROTARY VACUUM FILLER by Albroy, complete with fittings, for filling 4-oz. and 8-oz. bottles. £250 or near offer. Details from J. F. White & Co., Ltd., Lovington Laboratory, Benson St., Leeds, 7.

SIX TONS powdered American Halo wax. M.P. 200° C. Surplus to requirements. In good condition, packed in steel drums, each containing 4 cwt. Lying at Manchester. Will accept any reasonable offer. Box 6/691.

STANDARD SACCHARIN TABLETS, 0.2 gr. 550, in packets of 100 tablets, boxed in 1-gross lots. 1 to 5 gross at 56s. p. gross, 6 to 10 gross at 55s. p. gross. All parcels sent free, registered post express. C.W.O. only. Quotations for larger quantities by return. Tell Products, Ltd., 22-24 Rosemont Rd., London, N.W.3.

SURPLUS to requirements about 1,100 lb. direct black "A." Extra 150% available at the reduced price of 5/3 per lb. Offers considered. Sample and particulars submitted upon request. Box 6/680.

WELSH HONEY for sale in 28-lb. tins. Send offers for same to S. R. Jones, Cilrhiw, Brynhoftant, Llandyssul, Cars.

PARTNERSHIPS

36 words 8/6 (minimum) then 3d. per word. Box 2/-

I WANT dispenser, buyer, stockkeeper invest small capital under own control. Company recently registered. Panel. Kodak agency. Garage. A. H. Brett, M.P.S., 86 Fitzgerald Rd., Liverpool, 13.

TRADE MARKS

36 words 17/6 (minimum) then 4d. per word. Box 2/-

THE REGISTERED TRADE MARKS referred to below were assigned on August 5, 1949, by Roussel Laboratories, Ltd., of 95 Great Portland Street, London, W.1, to Les Laboratoires Gobey Société Anonyme of 89 Rue du Cherche-Midi, Paris, 6e, France, *without the whole of the goodwill* of the business in which they were then in use. 640,449, DIPEGYL, Pharmaceutical Products; 640,451, ACAVYL, Pharmaceutical preparations for use in the vascular treatment of thrombosis and phlebitis; 640,452, PERCAPYL, Pharmaceutical Products.

THE TRADE MARKS referred to below were on 5th August, 1949, assigned by Roussel Laboratories, Ltd., of 95 Great Portland St., London, W.1, to Société de l'Institut de Sérothérapie Hemopoietique Société Anonyme, of 97 Rue de Vaugirard, Paris 6e, France, *without the goodwill* of the business in which they were then in use. Registered Trade Marks: 583620, HEMOSTYL. Chemical substances prepared for use in medicine and pharmacy. 586474, HEMOXYL. Chemical substances prepared for use in medicine and pharmacy. 664128, SPONGELA. Pharmaceutical preparations and substances. Unregistered Trade Marks: THROMBASE. Pharmaceutical preparations and substances.

THE TRADE MARKS "BONOCORD," registered under No. 581608 in respect of contrivances medicated for the aid of deaf persons. "MINIPAK," registered under No. B.6 in respect of hearing aids for the deaf and thereof included in Class 10, were assigned July, 1949, by Allen & Hanburys, Ltd., of Colts Lane, Bethnal Green, London, E.2, to Colts Lane, Ltd., of Three Colts Lane, Bethnal Green, London, E.2, *without the goodwill* of the business in which they were then in use.

THE TRADE MARK CORVET, registered under No. 666453/77825, in respect of scissors, 11th July, 1949, assigned by Champion (Sheffield) Ltd., of 78 Hoyle St., Sheffield, 3, to Corvet Ltd., of 72 Queen St., Sheffield, *without the goodwill* of the business in which it was then in use.

SALE BY AUCTION

2/6 per line (12 lines = 1'). Box 2/-

VENO BUILDING, CHESTER ROAD, MANCHESTER

F. S. AIREY, ENTWISTLE & CO. have received instructions (owing to the removal of the premises to St. Helens) to sell by Auction, on Wednesday, September 21, 1949, the premises as above, at 11 a.m., the said premises being occupied by the said manufacturing chemists' distilling, mixing, bottling, and filling plant, including forming and printing machinery, office equipment, mechanics' machine tools and general effects, and surplus bottles and stock, including two copper extract stills and condenser, "Canon" jacketed and other boiler containers; "Raymond" impact pulverising machines; two drying ovens; one 10-punch and 12-punch tablet machines; ball and cone weighing machines; three Roberts gas filling machines, etc.

Two "Chambon" two-colour carton printing and punching machines and one machine; "Stauder" automatic box-folding and gluing machine for cartons up to 12 inches wide; "Multigraph" parallel folding rotary printing machines; steel and wood cabinets.

Two "Burroughs" 17-column electrical counting machines, "Addressograph" graphotype machine and plate cabinet. "Marconi" works radio and radiogram station.

Office furniture and canteen equipment, mechanics' machine tools, viz.:—One 6-in. diameter screw-cutting lathe and two drilling machines; air-conditioning and trunking.

Large quantity of No. 5 tablet and bottles and stoppers; cellophane sheets fibre board cartons, etc.

On view one week prior to sale. For particulars and catalogues (when ready) apply to the Auctioneers, 45 Cross Street, Manchester, 2, and 15 Nelson Square, Bolton.

STOCKTAKING

36 words 17/6 (minimum) then 4d. per word.

QUIET AND ACCURATE workmanship. Over 20 years' practical experience. Detailed inventory supplied to suit your individual requirements. Own stock sheets priced. Terms moderate. Playfoot, 8 Aylward Rd., London, S.W.20. Liberty 4104.



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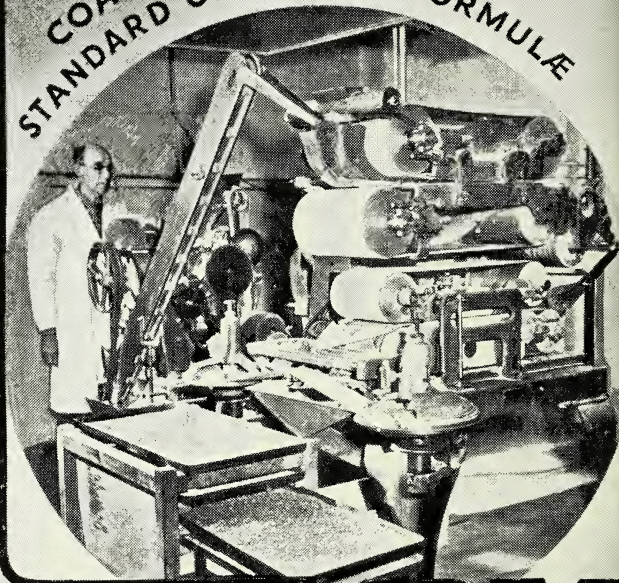


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The
CHEMIST AND DRUGGIST
SEPTEMBER 3, 1949

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